

## Midmer-Losh Main Console Registers

The wind pressure of 100-inch stops is shown in red and that of 50-inch is in green – the stop-keys of these voices have red or green jewels, as appropriate, set in them. Derivations are indicated in writing and by the stop numbers, at left (immediately before the stop's name).  
Introduction • Pedal Right • Pedal Left • Pedal Right Gallery • Pedal Left Gallery • Pedal Couplers • Pedal Percussion • Pedal 2nd Touch

PEDAL RIGHT Totals: 11 voices / 11 ranks / 903 pipes

|    |    |                     |    |     |          |                                  |
|----|----|---------------------|----|-----|----------|----------------------------------|
| 1  | 17 | Diaphone            | 64 |     | 35" wind | from Dulzian (see Note 1)        |
| 2  | 21 | Sub Principal       | 32 |     | 20" wind | from Sub Principal, Great        |
| 3  | 1  | Contra Tibia Clausa | 32 |     | 20" wind | extended 97 pipes                |
| 4  | 1  | Tibia Quint         | 21 | 1/3 | 20" wind | ext. Contra Tibia Clausa         |
| 5  | 2  | Diaphone Phonon     | 16 |     | 50" wind | extended 39 pipes                |
| 6  | 4  | Principal           | 16 |     | 30" wind | extended 109 pipes               |
| 7  | 21 | Diapason            | 16 |     | 20" wind | from Sub Principal, Great        |
| 8  | 22 | Diapason            | 16 |     | 20" wind | from Double Diapason I, Great    |
| 9  | 82 | Geigen Diapason     | 16 |     | 20" wind | from Geigen Diapason, Great-Solo |
| 10 | 3  | Tibia Major         | 16 |     | 30" wind | extended 85 pipes                |
| 11 | 59 | Major Flute         | 16 |     | 30" wind | from Major Flute, Solo           |
| 12 | 83 | Wald Flute          | 16 |     | 15" wind | from Wald Flute, Great-Solo      |
| 13 | 1  | Grand Bourdon       | 16 |     | 20" wind | ext. Contra Tibia Clausa         |
| 14 | 1  | Tibia Clausa        | 16 |     | 15" wind | from Tibia Clausa, Great-Solo    |
| 15 | 5  | Viol                | 16 |     | 30" wind | extended 85 pipes                |
| 16 | 6  | Gross Tierce        | 12 | 4/5 | 20" wind | extended 68 pipes                |
| 17 | 2  | Diaphone Quint      | 10 | 2/3 | 50" wind | ext. Diaphone Phonon             |
| 18 | 4  | Principal Quint     | 10 | 2/3 | 30" wind | ext. Principal                   |
| 19 | 3  | Tibia Quint         | 10 | 2/3 | 30" wind | ext. Tibia Major                 |
| 20 | 1  | Tibia Quint         | 10 | 2/3 | 20" wind | ext. Contra Tibia Clausa         |
| 21 | 83 | Quint Minor         | 10 | 2/3 | 15" wind | from Tibia Clausa, Great-Solo    |
| 22 | 7  | Septieme            | 9  | 1/7 | 20" wind | extended 68 pipes                |
| 23 | 4  | Octave Principal    | 8  |     | 30" wind | ext. Principal                   |
| 24 | 22 | Octave Major        | 8  |     | 20" wind | from Double Diapason I, Great    |
| 25 | 85 | Octave Diapason     | 8  |     | 15" wind | from Horn Diapason, Great-Solo   |
| 26 | 85 | Octave Geigen       | 8  |     | 15" wind | from Geigen Diapason, Great-Solo |
| 27 | 87 | Gross Gemshorn      | 8  |     | 15" wind | from Gemshorn, Great-Solo        |
| 28 | 3  | Tibia Major         | 8  |     | 30" wind | ext. Tibia Major                 |
| 29 | 1  | Tibia Clausa        | 8  |     | 20" wind | ext. Tibia Clausa                |
| 30 | 86 | Doppel Gedeckt      | 8  |     | 15" wind | from Doppel Gedeckt, Great-Solo  |
| 31 | 5  | Viol                | 8  |     | 30" wind | ext. Viol                        |
| 32 | 6  | Gross Tierce        | 6  | 2/5 | 20" wind | ext. Gross Tierce                |
| 33 | 4  | Principal Quint     | 5  | 1/3 | 30" wind | ext. Principal                   |
| 34 | 3  | Tibia Quint         | 5  | 1/3 | 30" wind | ext. Tibia Major                 |
| 35 | 1  | Tibia Quint         | 5  | 1/3 | 20" wind | ext. Contra Tibia Clausa         |
| 36 | 7  | Gross Septieme      | 4  | 4/7 | 20" wind | ext. Septieme                    |
| 37 | 4  | Super Octave        | 4  |     | 30" wind | ext. Principal                   |

|    |     |                     |    |     |           |                                |
|----|-----|---------------------|----|-----|-----------|--------------------------------|
| 38 | 85  | Fifteenth           | 4  |     | 15" wind  | from Horn Diapason, Great-Solo |
| 39 | 3   | Tibia Fifteenth     | 4  |     | 30" wind  | ext. Tibia Major               |
| 40 | 1   | Flute Fifteenth     | 4  |     | 20" wind  | ext. Contra Tibia Clausa       |
| 41 | 5   | Viol Fifteenth      | 4  |     | 30" wind  | ext. Viol                      |
| 42 | 6   | Tierce              | 3  | 1/5 | 20" wind  | ext. Gross Tierce              |
| 43 | 3   | Tibia Nineteenth    | 2  | 2/3 | 20" wind  | ext. Tibia Major               |
| 44 | 1   | Flute Nineteenth    | 2  | 2/3 | 20" wind  | ext. Contra Tibia Clausa       |
| 45 | 5   | Viol Nineteenth     | 2  | 2/3 | 30" wind  | ext. Viol                      |
| 46 | 7   | Septieme            | 2  | 2/7 | 20" wind  | ext. Septieme                  |
| 47 | 3   | Tibia Twenty-Second | 2  |     | 30" wind  | ext. Tibia Major               |
| 48 | 81  | Flageolet           | 2  |     | 15" wind  | from Wald Flute, Great-Solo    |
| 49 | 6   | Octave Tierce       | 1  | 3/5 | 20" wind  | ext. Gross Tierce              |
| 50 | 3   | Tibia Twenty-Sixth  | 1  | 1/3 | 30" wind  | ext. Tibia Major               |
| 51 | 7   | Octave Septieme     | 1  | 1/7 | 20" wind  | ext. Septieme                  |
| 52 | 1   | Flute Twenty-Ninth  | 1  |     | 20" wind  | ext. Contra Tibia Clausa       |
| 53 |     | Mixture             | XI |     | 15" wind  | from various Great-Solo ranks  |
| 54 |     | Reed Mixture        | V  |     | 15" wind  | from various Great-Solo ranks  |
| 55 | 17  | Dulzian             | 64 |     | 35" wind  | extended 85 pipes              |
| 56 | 17  | Contra Dulz Quint   | 42 | 2/3 | 35" wind  | ext. Dulzian                   |
| 57 | 17  | Contra Bombardon    | 32 |     | 35" wind  | ext. Bombardon                 |
| 58 | 17  | Contra Dulzian      | 32 |     | 35" wind  | ext. Dulzian                   |
| 59 | 17  | Dulzian Quint       | 21 | 1/3 | 35" wind  | ext. Dulzian                   |
| 60 | 9   | Grand Ophicleide    | 16 |     | 100" wind | extended 85 pipes              |
| 61 | 73  | Tuba Magna          | 16 |     | 50" wind  | from Tuba Magna, Solo          |
| 62 | 8   | Bombardon           | 16 |     | 35" wind  | extended 85 pipes              |
| 63 | 74  | Trumpet Profunda    | 16 |     | 30" wind  | from Trumpet Profunda, Solo    |
| 64 | 17  | Dulzian             | 16 |     | 35" wind  | ext. Dulzian                   |
| 65 | 10  | Trumpet             | 16 |     | 20" wind  | extended 97 pipes              |
| 66 | 96  | Saxophone           | 16 |     | 15" wind  | from Saxophone, Great-Solo     |
| 67 | 98  | French Horn         | 16 |     | 15" wind  | from French Horn, Great-Solo   |
| 68 | 97  | English Horn        | 16 |     | 15" wind  | from English Horn, Great-Solo  |
| 69 | 95  | Oboe Horn           | 16 |     | 15" wind  | from Oboe Horn, Great-Solo     |
| 70 | 100 | Krummhorn           | 16 |     | 15" wind  | from Krummhorn, Great-Solo     |
| 71 | 99  | Vox Baryton         | 16 |     | 15" wind  | from Vox Baryton, Great-Solo   |
| 72 | 8   | Bombard Quint       | 10 | 2/3 | 35" wind  | ext. Bombardon                 |
| 73 | 17  | Dulzian Quint       | 10 | 2/3 | 35" wind  | ext. Dulzian                   |
| 74 | 9   | Ophicleide          | 8  |     | 100" wind | ext. Grand Ophicleide          |
| 75 | 78  | Bugle               | 8  |     | 50" wind  | from Bugle, Solo               |
| 76 | 8   | Octave Bombardon    | 8  |     | 35" wind  | ext. Bombardon                 |
| 77 | 8   | Octave Dulzian      | 8  |     | 35" wind  | ext. Dulzian                   |
| 78 | 10  | Octave Trumpet      | 8  |     | 20" wind  | ext. Trumpet                   |
| 79 | 100 | Krummhorn           | 8  |     | 15" wind  | from Krummhorn, Great-Solo     |
| 80 | 99  | Vox Baryton         | 8  |     | 15" wind  | from Vox Baryton, Great-Solo   |
| 81 | 8   | Bombardon Quint     | 5  | 1/3 | 35" wind  | ext. Bombardon                 |
| 82 | 10  | Trumpet Quint       | 5  | 1/3 | 20" wind  | ext. Trumpet                   |
| 83 | 17  | Dulzian Fifteenth   | 4  |     | 35" wind  | ext. Dulzian                   |

|   |     |                        |          |          |                                    |
|---|-----|------------------------|----------|----------|------------------------------------|
| 84  | 8   | Trumpet Fifteenth      | 4        | 20" wind | ext. Trumpet                       |
| PEDAL LEFT Totals: 10 voices / 16 ranks / 955 pipes |     |                        |          |          |                                    |
| 1   | 11  | Diaphone               | 32       | 50" wind | ext. Diaphone                      |
| 2   | 12  | Diapason               | 32       | 20" wind | ext. Diapason                      |
| 3   | 11  | Diaphone               | 16       | 50" wind | extended 97 pipes                  |
| 4   | 13  | Diaphonic Diapason     | 16       | 35" wind | extended 85 pipes                  |
| 5   | 320 | Major Diapason         | 16       | 20" wind | straight 32 pipes                  |
| 6   | 12  | Diapason               | 16       | 20" wind | extended 97 pipes                  |
| 7   | 117 | Diapason               | 16       | 20" wind | ext. Double Diapason, Swell        |
| 8   | 15  | Tibia Clausa           | 16       | 20" wind | extended 85 pipes                  |
| 9   | 147 | Doppel Gedeckt         | 16       | 15" wind | ext. Doppel Gedeckt, Swell-Choir   |
| 10  | 311 | Stopped Diapason       | 16       | 15" wind | ext. Stopped Diapason, Swell-Choir |
| 11  | 14  | Bass Viol              | 16       | 20" wind | extended 85 pipes                  |
| 12  | 254 | Bass Viol              | 16       | 25" wind | from Contra Basso, String I        |
| 13  | 131 | Bass Gamba             | 16       | 15" wind | from Contra Gamba, Swell           |
| 14  | 148 | Cone Gamba             | 16       | 15" wind | from Cone Gamba, Swell-Choir       |
| 15  | 12  | Diapason Quint         | 10 2/3   | 20" wind | ext. Diapason                      |
| 16  | 311 | Stopped Quint          | 10 2/3   | 15" wind | from Stopped Diapason, Swell-Choir |
| 17  | 148 | Cone Quint             | 10 2/3   | 15" wind | from Cone Gamba, Swell-Choir       |
| 18  | 11  | Octave Diaphone        | 8        | 50" wind | ext. Diaphone                      |
| 19  | 13  | Octave Diapason        | 8        | 35" wind | ext. Diapason Phonon               |
| 20  | 12  | Octave Phonon          | 8        | 20" wind | ext. Diapason                      |
| 21  | 15  | Gross Flute            | 8        | 20" wind | ext. Tibia Clausa                  |
| 22  | 152 | Octave Gemshorn        | 8        | 15" wind | ext. Gemshorn, Swell-Choir         |
| 23  | 149 | Clarabella             | 8        | 15" wind | ext. Clarabella, Swell-Choir       |
| 24  | 14  | Cello                  | 8        | 20" wind | ext. Bass Viol                     |
| 25  | 155 | Tenth                  | 6 2/5    | 10" wind | from Third, Swell-Choir            |
| 26  | 156 | Twelfth                | 5 1/3    | 10" wind | from Fifth, Swell-Choir            |
| 27  | 157 | Fourteenth             | 4 4/7    | 10" wind | from Seventh, Swell-Choir          |
| 28  | 11  | Fifteenth              | 4        | 50" wind | ext. Diaphone                      |
| 29  | 12  | Super Octave           | 4        | 20" wind | ext. Diapason                      |
| 30  | 152 | Gemshorn Fifteenth     | 4        | 15" wind | from Gemshorn, Swell-Choir         |
| 31  | 15  | Flute Fifteenth        | 4        | 20" wind | ext. Tibia Clausa                  |
| 32  | 155 | Seventeenth            | 3 1/5    | 10" wind | from Third, Swell-Choir            |
| 33  | 156 | Nineteenth             | 2 2/3    | 10" wind | from Fifth, Swell-Choir            |
| 34  | 157 | Twenty-First           | 2 2/7    | 10" wind | from Seventh, Swell-Choir          |
| 35  | 12  | Twenty-Second          | 2        | 20" wind | ext. Diapason                      |
| 36  | 152 | Gemshorn Twenty-Second | 2        | 15" wind | from Gemshorn, Swell-Choir         |
| 37  | 15  | Twenty-Second          | 2        | 20" wind | ext. Tibia Clausa                  |
| 38  | 15  | Twenty-Ninth           | 1        | 20" wind | ext. Tibia Clausa                  |
| 39  | 16  | Stentor Sesquialtera   | 8–22 VII | 20" wind | straight 224 pipes                 |
| 40  |     | Grave Mixture          | 1–19 VI  | 15" wind | from various Swell and Swell-Choir |
| ranks 224 pipes                                     |     |                        |          |          |                                    |
| 41  | 18  | Contra Bombard         | 32       | 50" wind | ext. Bombard                       |
| 42  | 19  | Contra Fagotto         | 32       | 20" wind | ext. Fagotto                       |

|    |     |                       |       |          |                              |
|----|-----|-----------------------|-------|----------|------------------------------|
| 43 | 20  | Major Posaune         | 16    | 50" wind | extended 44 pipes            |
| 44 | 18  | Bombard               | 16    | 50" wind | extended 97 pipes            |
| 45 | 138 | Trumpet               | 16    | 30" wind | from Double Trumpet, Swell   |
| 46 | 142 | Horn                  | 16    | 15" wind | from Double Horn, Swell      |
| 47 | 19  | Fagotto               | 16    | 20" wind | extended 109 pipes           |
| 48 | 160 | Oboe                  | 16    | 15" wind | from Oboe, Swell-Choir       |
| 49 | 161 | Clarinet              | 16    | 15" wind | from Clarinet, Swell-Choir   |
| 50 | 162 | Vox Humana            | 16    | 15" wind | from Vox Humana, Swell-Choir |
| 51 | 20  | Major Posaune         | 8     | 50" wind | ext. Major Posaune           |
| 52 | 18  | Octave Bombard        | 8     | 50" wind | ext. Bombard                 |
| 53 | 19  | Octave Fagotto        | 8     | 20" wind | ext. Fagotto                 |
| 54 | 160 | Octave Oboe           | 8     | 15" wind | from Oboe, Swell-Choir       |
| 55 | 161 | Octave Clarinet       | 8     | 15" wind | from Clarinet, Swell-Choir   |
| 56 | 19  | Horn Twelfth          | 5 1/3 | 20" wind | ext. Fagotto                 |
| 57 | 18  | Bombard Fifteenth     | 4     | 50" wind | ext. Bombard                 |
| 58 | 19  | Horn Fifteenth        | 4     | 20" wind | ext. Fagotto                 |
| 59 | 160 | Oboe Fifteenth        | 4     | 15" wind | from Oboe, Swell-Choir       |
| 60 | 19  | Horn Nineteenth       | 2 2/3 | 20" wind | ext. Fagotto                 |
| 61 | 19  | Fagotto Twenty-Second | 2     | 20" wind | ext. Fagotto                 |

#### PEDAL RIGHT GALLERY

|    |     |                |        |           |                                   |
|----|-----|----------------|--------|-----------|-----------------------------------|
| 1  | 298 | Contra Violone | 32     | 25" wind  | from Violone, Echo                |
| 2  | 233 | Diaphone       | 16     | 25" wind  | from Diaphone, Gallery I          |
| 3  | 242 | Flute Maggiore | 16     | 25" wind  | from Flute Maggiore, Gallery II   |
| 4  | 214 | Spire Flute    | 16     | 15" wind  | from Spire Flute, Echo            |
| 5  | 220 | Bourdon        | 16     | 15" wind  | from Clarabella, Echo             |
| 6  | 298 | Contra Violone | 16     | 25" wind  | from Violone, Echo                |
| 7  | 265 | Double Bass    | 16     | 15" wind  | from Double Bass, String II       |
| 8  | 266 | Contra Bass    | 16     | 15" wind  | from Contra Bass, String II       |
| 9  | 267 | Contra Viol    | 16     | 15" wind  | from Contra Viol, String II       |
| 10 | 213 | Contra Gamba   | 16     | 15" wind  | from Gamba, Echo                  |
| 11 | 220 | Flute Quint    | 10 2/3 | 15" wind  | from Clarabella, Echo             |
| 12 | 214 | Cone Flute     | 8      | 25" wind  | ext. Spire Flute, Echo            |
| 13 | 298 | Violone        | 8      | 25" wind  | from Violone, Echo                |
| 14 | 298 | Violone        | 4      | 25" wind  | from Violone, Echo                |
| 15 | 235 | Trumpet Sonora | 16     | 100" wind | from Trumpet Mirabilis, Gallery I |
| 16 | 231 | Tuba d'Amour   | 16     | 25" wind  | from Tuba d'Amour, Echo           |
| 17 | 226 | Contra Bassoon | 16     | 15" wind  | from Bassoon, Echo                |
| 18 | 226 | Chalumeau      | 16     | 15" wind  | from Clarinet, Echo               |
| 19 | 230 | Vox Humana     | 16     | 15" wind  | from Vox Humana II, Echo          |
| 20 | 226 | Bassoon        | 8      | 15" wind  | from Bassoon, Echo                |

#### PEDAL LEFT GALLERY

|   |     |                |    |          |                                   |
|---|-----|----------------|----|----------|-----------------------------------|
| 1 | 236 | Grand Diapason | 16 | 20" wind | from Contra Diapason, Gallery III |
| 2 | 171 | Dulciana       | 16 | 10" wind | from Contra Dulciana, Choir       |
| 3 | 197 | Major Flute    | 16 | 20" wind | from Major Flute, Fanfare         |

|    |     |                    |    |     |          |                             |
|----|-----|--------------------|----|-----|----------|-----------------------------|
| 4  | 176 | Double Melodia     | 16 |     | 10" wind | from Melodia, Choir         |
| 5  | 176 | Melodia            | 8  |     | 10" wind | from Melodia, Choir         |
| 6  | 299 | Contra Trombone    | 32 |     | 35" wind | from Trombone, Fanfare      |
| 7  | 205 | Posaune            | 16 |     | 50" wind | from Posaune, Fanfare       |
| 8  | 299 | Trombone           | 16 |     | 35" wind | from Trombone, Fanfare      |
| 9  | 206 | Bombardon          | 16 |     | 35" wind | from Bombardon, Fanfare     |
| 10 | 188 | Trombone           | 16 |     | 25" wind | from Contra Tromba, Choir   |
| 11 | 249 | Saxophone          | 16 |     | 25" wind | from Saxophone, Gallery IV  |
| 12 | 209 | Tromba Quint       | 10 | 2/3 | 20" wind | from Tromba Quint, Fanfare  |
| 13 | 299 | Trombone           | 8  |     | 35" wind | from Trombone, Fanfare      |
| 14 | 188 | Tromba             | 8  |     | 25" wind | from Contra Tromba, Choir   |
| 15 | 210 | Tromba Tierce      | 6  | 2/5 | 20" wind | from Tromba Tierce, Fanfare |
| 16 | 209 | Tromba Quint       | 5  | 1/3 | 20" wind | from Tromba Quint, Fanfare  |
| 17 | 210 | Tromba Seventeenth | 3  | 1/5 | 20" wind | from Tromba Tierce, Fanfare |

#### PEDAL COUPLERS

|    |                       |
|----|-----------------------|
| 1  | Pedal Divide          |
| 2  | Choir to Pedal 8      |
| 3  | Choir to Pedal 4      |
| 4  | Great to Pedal 8      |
| 5  | Great to Pedal 4      |
| 6  | Swell to Pedal 8      |
| 7  | Swell to Pedal 4      |
| 8  | Solo to Pedal 8       |
| 9  | Solo to Pedal 4       |
| 10 | Fanfare to Pedal 8    |
| 11 | Fanfare to Pedal 4    |
| 12 | Echo to Pedal 8       |
| 13 | Gallery I to Pedal    |
| 14 | Gallery II to Pedal   |
| 15 | Gallery III to Pedal  |
| 16 | Gallery IV to Pedal   |
| 17 | Brass Chorus to Pedal |
| 18 | String I to Pedal     |
| 19 | String II to Pedal    |
| 20 | String III to Pedal   |

#### PEDAL PERCUSSION

|   |     |                    |    |  |  |
|---|-----|--------------------|----|--|--|
| 1 | A   | Grand Piano        | 16 |  | from Grand Piano, in Left Center Chamber |
| 2 | A   | Grand Piano        | 8  |  | from Grand Piano, in Left Center Chamber |
| 3 | 108 | Chimes             | 8  |  | from Great-Solo, unenclosed              |
| 4 | B   | Contra Drum Strike | FF |  | from Percussion                          |
| 5 | B   | Contra Drum Roll   | FF |  | from Percussion                          |
| 6 | B   | Contra Drum Strike | MP |  | from Percussion                          |
| 7 | B   | Contra Drum Roll   | MP |  | from Percussion                          |
| 8 | C   | Bass Drum Strike   |    |  | from Percussion                          |

|    |     |                     |                 |
|----|-----|---------------------|-----------------|
| 9  | C   | Bass Drum Roll      | from Percussion |
| 10 | C   | Bass Drum Strike    | from Percussion |
| 11 | C   | Bass Drum Roll      | from Percussion |
| 12 | D   | Bass Drum Strike    | from Percussion |
| 13 | D   | Bass Drum Roll      | from Percussion |
| 14 | F,G | Snare Drums Roll    | from Percussion |
| 15 | E   | Snare Drum Roll     | from Percussion |
| 16 | I   | Chinese Gong Strike | from Percussion |
| 17 | I   | Chinese Gong Roll   | from Percussion |
| 18 | H   | Cymbal              | from Percussion |
| 19 | J   | Persian Cymbal      | from Percussion |
| 20 | K   | Persian Cymbal      | from Percussion |

#### PEDAL 2ND TOUCH

|    |     |                       |           |                                     |
|----|-----|-----------------------|-----------|-------------------------------------|
| 1  | 17  | Diaphone 64           | 35" wind  | from Dulzian, Pedal Right           |
| 2  | 11  | Diaphone 32           | 50" wind  | from Diaphone, Pedal Left           |
| 3  | 13  | Diaphonic Diapason 16 | 35" wind  | from Diaphonic Diapason, Pedal Left |
| 4  | 3   | Tibia Major 16        | 30" wind  | from Tibia Major, Pedal Right       |
| 5  | 5   | Contra Viol 16        | 30" wind  | from Viol, Pedal Right              |
| 6  | 3   | Tibia Major 8         | 30" wind  | from Tibia Major, Pedal Right       |
| 7  | 5   | Viol 8                | 30" wind  | from Viol, Pedal Right              |
| 8  | 3   | Tibia Major 4         | 30" wind  | from Tibia Major, Pedal Right       |
| 9  | 5   | Viol 4                | 30" wind  | from Viol, Pedal Right              |
| 10 | 17  | Dulzian 64            | 35" wind  | from Dulzian, Pedal Right           |
| 11 | 18  | Contra Bombard 32     | 50" wind  | from Bombard, Pedal Left            |
| 12 | 8   | Contra Bombardon 32   | 35" wind  | from Bombardon, Pedal Right         |
| 13 | 8   | Ophicleide 16         | 100" wind | from Grand Ophicleide, Pedal Right  |
| 14 | 20  | Posaune 16            | 50" wind  | from Major Posaune, Pedal Left      |
| 15 | 18  | Bombard 16            | 50" wind  | from Bombard, Pedal Left            |
| 16 | 7   | Bombardon 16          | 35" wind  | from Bombardon, Pedal Right         |
| 17 | 8   | Ophicleide 8          | 100" wind | from Grand Ophicleide, Pedal Right  |
| 18 | 20  | Posaune 8             | 50" wind  | from Major Posaune, Pedal Left      |
| 19 | 7   | Bombardon 8           | 35" wind  | from Bombardon, Pedal Right         |
| 20 | 17  | Dulzian 8             | 35" wind  | from Dulzian, Pedal Right           |
| 21 | 18  | Bombard 4             | 50" wind  | from Bombard, Pedal Left            |
| 22 | 17  | Dulzian 4             | 35" wind  | from Dulzian, Pedal Right           |
| 23 | 108 | Chimes 8              |           | from Great-Solo, unenclosed         |
| 24 | B   | Contra Drum Strike FF |           | from Percussion                     |
| 25 | B   | Contra Drum Roll FF   |           | from Percussion                     |
| 26 | C   | Bass Drum Strike FF   |           | from Percussion                     |
| 27 | C   | Bass Drum Roll FF     |           | from Percussion                     |
| 28 | D   | Bass Drum Strike FF   |           | from Percussion                     |
| 29 | F,G | Snare Drums Roll FF   |           | from Percussion                     |
| 30 | E   | Snare Drum Strike FF  |           | from Percussion                     |
| 31 | E   | Snare Drum Roll FF    |           | from Percussion                     |
| 32 | J,K | Persian Cymbals       |           | from Percussion                     |

|    |   |                       |   |                 |
|----|---|-----------------------|---|-----------------|
| 33 | H | Cymbal                |   | from Percussion |
| 34 |   | Fanfare to Pedal      | 8 |                 |
| 35 |   | Gallery I to Pedal    |   |                 |
| 36 |   | Gallery III to Pedal  |   |                 |
| 37 |   | Brass Chorus to Pedal |   |                 |
| 38 |   | String I to Pedal     |   |                 |
| 39 |   | String II to Pedal    |   |                 |

UNENCLOSED CHOIR – Manual 1 Totals: 6 voices / 9 ranks / 657 pipes

|   |     |                |          |            |          |           |
|---|-----|----------------|----------|------------|----------|-----------|
| 1 | 165 | Quintaton      | 16       | 31/2" wind | straight | 73 pipes  |
| 2 | 166 | Diapason       | 8        | 31/2" wind | straight | 73 pipes  |
| 3 | 167 | Holz Flute     | 8        | 31/2" wind | straight | 73 pipes  |
| 4 | 168 | Octave         | 4        | 31/2" wind | straight | 73 pipes  |
| 5 | 169 | Fifteenth      | 2        | 31/2" wind | straight | 73 pipes  |
| 6 | 170 | Rausch Quint   | 12–15 II | 31/2" wind | straight | 146 pipes |
| 7 | 170 | Scharf Mixture | 19–22 II | 31/2" wind | straight | 146 pipes |

CHOIR – Manual 1 Totals: 29 voices / 37 ranks / 2,792 pipes

|    |     |                         |       |          |               |           |
|----|-----|-------------------------|-------|----------|---------------|-----------|
| 1  | 171 | Contra Dulciana         | 16    | 10" wind | ext. Dulciana |           |
| 2  | 176 | Contra Melodia          | 16    | 10" wind | ext. Melodia  |           |
| 3  | 172 | Diapason I              | 8     | 10" wind | straight      | 73 pipes  |
| 4  | 173 | Diapason II             | 8     | 10" wind | straight      | 73 pipes  |
| 5  | 171 | Dulciana                | 8     | 10" wind | extended      | 92 pipes  |
| 6  | 174 | Dulciana Celeste        | 8     | 10" wind | straight      | 73 pipes  |
| 7  | 184 | Gemshorn                | 8     | 10" wind | straight      | 73 pipes  |
| 8  | 185 | Gemshorn Celeste        | 8     | 10" wind | straight      | 73 pipes  |
| 9  | 176 | Melodia                 | 8     | 10" wind | extended      | 109 pipes |
| 10 | 177 | Philomela               | 8     | 10" wind | straight      | 73 pipes  |
| 11 | 178 | Concert Flute           | 8     | 10" wind | straight      | 73 pipes  |
| 12 | 179 | Unda Maris              | 8     | 10" wind | straight      | 73 pipes  |
| 13 | 309 | Nachthorn               | 8     | 10" wind | straight      | 73 pipes  |
| 14 | 186 | Viola Pomposa           | 8     | 10" wind | straight      | 73 pipes  |
| 15 | 187 | Viola Celeste           | 8     | 10" wind | straight      | 73 pipes  |
| 16 | 310 | Voix Celestes (2 ranks) | 8     | 10" wind | straight      | 134 pipes |
| 17 | 171 | Dulzquint               | 5 1/3 | 10" wind | ext. Dulciana |           |
| 18 | 175 | Dolce                   | 4     | 10" wind | extended      | 97 pipes  |
| 19 | 180 | Spindle Flute           | 4     | 10" wind | straight      | 73 pipes  |
| 20 | 181 | Flute Overté            | 4     | 10" wind | straight      | 73 pipes  |
| 21 | 309 | Fugara                  | 4     | 10" wind | straight      | 73 pipes  |
| 22 | 175 | Dulzard Twelfth         | 2 2/3 | 10" wind | ext. Dolce    |           |
| 23 | 176 | Melodia Twelfth         | 2 2/3 | 10" wind | ext. Melodia  |           |
| 24 | 182 | Flageolet               | 2     | 10" wind | straight      | 73 pipes  |
| 25 | 175 | Dulcett Fifteenth       | 2     | 10" wind | ext. Dolce    |           |
| 26 | 176 | Melodia Fifteenth       | 2     | 10" wind | ext. Melodia  |           |
| 27 | 175 | Dulcett Nineteenth      | 1 1/3 | 10" wind | ext. Dolce    |           |
| 28 | 175 | Dulcett Twenty-Second   | 1     | 10" wind | ext. Dolce    |           |

|    |     |                       |     |          |                    |           |
|----|-----|-----------------------|-----|----------|--------------------|-----------|
| 29 | 183 | Flute Mixture 15–19   | III | 10" wind | straight           | 219 pipes |
| 30 | 196 | Acuta 19–31           | VI  | 10" wind | straight           | 438 pipes |
| 31 | 188 | Contra Tromba         | 16  | 25" wind | extended           | 97 pipes  |
| 32 | 189 | Tromba Real           | 8   | 25" wind | straight           | 73 pipes  |
| 33 | 190 | Brass Cornet          | 8   | 25" wind | straight           | 73 pipes  |
| 34 | 191 | French Horn           | 8   | 10" wind | straight           | 73 pipes  |
| 35 | 192 | Clarinet              | 8   | 10" wind | straight           | 73 pipes  |
| 36 | 193 | Bassett Horn          | 8   | 10" wind | straight           | 73 pipes  |
| 37 | 194 | Cor Anglais           | 8   | 10" wind | straight           | 73 pipes  |
| 38 | 195 | Kinura                | 8   | 10" wind | straight           | 73 pipes  |
| 39 | 188 | Tromba Clarion        | 4   | 25" wind | ext. Contra Tromba |           |
| 40 |     | Sub Octave            | 16  |          |                    |           |
| 41 |     | Octave                | 4   |          |                    |           |
| 42 |     | Great to Choir        | 8   |          |                    |           |
| 43 |     | Swell to Choir        | 8   |          |                    |           |
| 44 |     | Swell to Choir        | 4   |          |                    |           |
| 45 |     | Solo to Choir         | 8   |          |                    |           |
| 46 |     | Solo to Choir         | 4   |          |                    |           |
| 47 |     | Fanfare to Choir      | 8   |          |                    |           |
| 48 |     | Echo to Choir         | 8   |          |                    |           |
| 49 |     | Gallery I to Choir    |     |          |                    |           |
| 50 |     | Gallery II to Choir   |     |          |                    |           |
| 51 |     | Gallery III to Choir  |     |          |                    |           |
| 52 |     | Gallery IV to Choir   |     |          |                    |           |
| 53 |     | Brass Chorus to Choir |     |          |                    |           |
| 54 |     | String I to Choir     |     |          |                    |           |
| 55 |     | String II to Choir    |     |          |                    |           |
| 56 |     | String III to Choir   |     |          |                    |           |

#### CHOIR-SWELL – Manual 1

|    |     |                     |       |          |                  |
|----|-----|---------------------|-------|----------|------------------|
| 1  | 147 | Gross Gedeckt       | 16    | 15" wind | from Swell-Choir |
| 2  | 311 | Stopped Diapason    | 16    | 10" wind | from Swell-Choir |
| 3  | 148 | Cone Gamba          | 16    | 15" wind | from Swell-Choir |
| 4  | 152 | Gemshorn            | 8     | 15" wind | from Swell-Choir |
| 5  | 153 | Gemshorn Celeste I  | 8     | 15" wind | from Swell-Choir |
| 6  | 154 | Gemshorn Celeste II | 8     | 15" wind | from Swell-Choir |
| 7  | 149 | Clarabella          | 8     | 15" wind | from Swell-Choir |
| 8  | 150 | Doppel Spitz Flute  | 8     | 10" wind | from Swell-Choir |
| 9  | 147 | Doppel Gedeckt      | 8     | 15" wind | from Swell-Choir |
| 10 | 311 | Stopped Diapason    | 8     | 10" wind | from Swell-Choir |
| 11 | 148 | Cone Gamba          | 8     | 15" wind | from Swell-Choir |
| 12 | 155 | Third               | 6 2/5 | 10" wind | from Swell-Choir |
| 13 | 156 | Fifth               | 5 1/3 | 10" wind | from Swell-Choir |
| 14 | 156 | Gemshorn Quint      | 5 1/3 | 15" wind | from Swell-Choir |
| 15 | 148 | Gamba Quint         | 5 1/3 | 15" wind | from Swell-Choir |
| 16 | 157 | Seventh             | 4 4/7 | 10" wind | from Swell-Choir |



|    |     |                       |         |          |                             |
|----|-----|-----------------------|---------|----------|-----------------------------|
| 17 | 152 | Octave Gemshorn       | 4       | 15" wind | from Swell-Choir            |
| 18 | 149 | Claribel Flute        | 4       | 15" wind | from Swell-Choir            |
| 19 | 150 | Spitz Flute           | 4       | 10" wind | from Swell-Choir            |
| 20 | 147 | Doppel Flute          | 4       | 15" wind | from Swell-Choir            |
| 21 | 311 | Stopped Flute         | 4       | 10" wind | from Swell-Choir            |
| 22 | 151 | Zauber Flute          | 4       | 15" wind | from Swell-Choir            |
| 23 | 148 | Cone Flute            | 4       | 15" wind | from Swell-Choir            |
| 24 | 158 | Ninth                 | 3 5/9   | 10" wind | from Swell-Choir            |
| 25 | 155 | Major Tenth           | 3 1/5   | 10" wind | from Swell-Choir            |
| 26 | 154 | Gemshorn Tenth        | 3 1/5   | 15" wind | from Swell-Choir            |
| 27 | 159 | Eleventh              | 2 10/11 | 10" wind | from Swell-Choir            |
| 28 | 153 | Gemshorn Twelfth      | 2 2/3   | 15" wind | from Swell-Choir            |
| 29 | 156 | Twelfth               | 2 2/3   | 10" wind | from Swell-Choir            |
| 30 | 149 | Flute Twelfth         | 2 2/3   | 15" wind | from Swell-Choir            |
| 31 | 311 | Stopped Flute Twelfth | 2 2/3   | 10" wind | from Swell-Choir            |
| 32 | 157 | Octave Septieme       | 2 2/7   | 10" wind | from Swell-Choir            |
| 33 | 152 | Gemshorn Fifteenth    | 2       | 15" wind | from Swell-Choir            |
| 34 | 150 | Flute Fifteenth       | 2       | 15" wind | from Swell-Choir            |
| 35 | 151 | Magic Flute           | 2       | 15" wind | from Swell-Choir            |
| 36 | 158 | Sixteenth             | 1 7/9   | 10" wind | from Swell-Choir            |
| 37 | 155 | Major Seventeenth     | 1 3/5   | 10" wind | from Swell-Choir            |
| 38 | 154 | Gemshorn Seventeenth  | 1 3/5   | 15" wind | from Swell-Choir            |
| 39 | 159 | Eighteenth            | 1 5/11  | 10" wind | from Swell-Choir            |
| 40 | 156 | Major Nineteenth      | 1 1/3   | 10" wind | from Swell-Choir            |
| 41 | 153 | Gemshorn Nineteenth   | 1 1/3   | 15" wind | from Swell-Choir            |
| 42 | 156 | Twenty-First          | 1 1/7   | 10" wind | from Swell-Choir            |
| 43 | 152 | Twenty-Second         | 1       | 15" wind | from Swell-Choir            |
| 44 | 151 | Zauber Twenty-Second  | 1       | 15" wind | from Swell-Choir            |
| 45 | 158 | Twenty-Third          | 8/9     | 10" wind | from Swell-Choir            |
| 46 | 155 | Twenty-Fourth         | 4/5     | 10" wind | from Swell-Choir            |
| 47 | 159 | Twenty-Fifth          | 8/11    | 10" wind | from Swell-Choir            |
| 48 | 156 | Twenty-Sixth          | 2/3     | 10" wind | from Swell-Choir            |
| 49 | 152 | Twenty-Ninth          | 1/2     | 15" wind | from Swell-Choir            |
| 50 | 152 | Thirty-Sixth          | 1/4     | 15" wind | from Swell-Choir            |
| 51 | 19  | Fagotto               | 32      | 20" wind | from Fagotto, Pedal Left    |
| 52 | 160 | Contra Oboe           | 16      | 15" wind | from Swell-Choir            |
| 53 | 161 | Bass Clarinet         | 16      | 15" wind | from Swell-Choir            |
| 54 | 162 | Bass Vox Humana       | 16      | 15" wind | from Swell-Choir            |
| 55 | 160 | Oboe                  | 8       | 15" wind | from Swell-Choir            |
| 56 | 161 | Clarinet              | 8       | 15" wind | from Swell-Choir            |
| 57 | 162 | Vox Humana            | 8       | 15" wind | from Swell-Choir            |
| 58 | 160 | Octave Oboe           | 4       | 15" wind | from Swell-Choir            |
| 59 | 161 | Octave Clarinet       | 4       | 15" wind | from Swell-Choir            |
| 60 | 162 | Vox Humana            | 4       | 15" wind | from Swell-Choir            |
| 61 | 108 | Chimes                | 8       |          | from Great-Solo, unenclosed |
| 62 | 163 | Marimba Harp Repeat   | 8       |          | from Swell-Choir            |

|    |     |                     |   |  |                  |
|----|-----|---------------------|---|--|------------------|
| 63 | 163 | Marimba Harp Stroke | 8 |  | from Swell-Choir |
| 64 | 164 | Glockenspiel Repeat | 4 |  | from Swell-Choir |
| 65 | 164 | Glockenspiel Single | 4 |  | from Swell-Choir |
| 66 | 164 | Glockenspiel Single | 2 |  | from Swell-Choir |
| 67 | F,G | Snare Drums Roll    |   |  | from Percussion  |
| 68 | F,G | Snare Drums Tap     |   |  | from Percussion  |
| 69 | E   | Snare Drum Roll     |   |  | from Percussion  |
| 70 | E   | Snare Drum Tap      |   |  | from Percussion  |
| 71 | P   | Tom-Tom             |   |  | from Percussion  |
| 72 | O   | Wood Block          |   |  | from Percussion  |
| 73 | M   | Castinets           |   |  | from Percussion  |
| 74 | N   | Triangle            |   |  | from Percussion  |

#### GRAND CHOIR – Manual 1

|    |    |                    |    |          |                                     |
|----|----|--------------------|----|----------|-------------------------------------|
| 1  | 11 | Diaphone           | 16 | 50" wind | from Diaphone, Pedal Left           |
| 2  | 11 | Diaphone Melody    | 16 | 50" wind | from Diaphone, Pedal Left           |
| 3  | 11 | Diaphone           | 8  | 50" wind | from Diaphone, Pedal Left           |
| 4  | 12 | Diapason           | 8  | 20" wind | from Diapason, Pedal Left           |
| 5  | 13 | Diaphonic Diapason | 8  | 35" wind | from Diaphonic Diapason, Pedal Left |
| 6  | 15 | Tibia Clausa       | 8  | 20" wind | from Tibia Clausa, Pedal Left       |
| 7  | 14 | Violoncello        | 8  | 20" wind | from Bass Viol, Pedal Left          |
| 8  | 18 | Bombard            | 16 | 50" wind | from Bombard, Pedal Left            |
| 9  | 19 | Fagotto            | 16 | 20" wind | from Fagotto, Pedal Left            |
| 10 | 20 | Major Posaune      | 8  | 50" wind | from Major Posaune, Pedal Left      |
| 11 | 18 | Bombard            | 8  | 50" wind | from Bombard, Pedal Left            |
| 12 | 18 | Bombard Melody     | 4  | 50" wind | from Bombard, Pedal Left            |
| 13 | 19 | Chalumeau          | 8  | 20" wind | from Fagotto, Pedal Left            |
| 14 | 19 | Octave Oboe        | 4  | 20" wind | from Fagotto, Pedal Left            |
| 15 |    | Grand Choir On     |    |          |                                     |

#### CHOIR 2nd TOUCH – Manual 1

|    |     |                    |    |          |                             |
|----|-----|--------------------|----|----------|-----------------------------|
| 1  | 265 | Double Bass        | 16 | 15" wind | from Double Bass, String II |
| 2  | 266 | Contra Bass        | 16 | 15" wind | from Contra Bass, String II |
| 3  | 267 | Contra Viol        | 16 | 15" wind | from Contra Viol, String II |
| 4  | 265 | Viola              | 8  | 15" wind | from Double Bass, String II |
| 5  | 266 | Violoncello        | 8  | 15" wind | from Contra Bass, String II |
| 6  | 267 | Violoncello        | 8  | 15" wind | from Contra Viol, String II |
| 7  | 266 | Violoncello        | 4  | 15" wind | from Contra Bass, String II |
| 8  | 267 | Violoncello        | 4  | 15" wind | from Contra Viol, String II |
| 9  |     | Fanfare to Choir   | 8  |          |                             |
| 10 |     | Gallery I to Choir |    |          |                             |
| 11 |     | String I to Choir  |    |          |                             |
| 12 |     | String II to Choir |    |          |                             |

#### GREAT – Manual 2 Totals: 38 voices / 63 ranks / 4,647 pipes

|   |    |               |                             |          |          |           |
|---|----|---------------|-----------------------------|----------|----------|-----------|
| 1 | 21 | Sub Principal | 32 (Currently wired at 16') | 20" wind | extended | 121 pipes |
|---|----|---------------|-----------------------------|----------|----------|-----------|

|    |     |                          |        |                             |                        |           |
|----|-----|--------------------------|--------|-----------------------------|------------------------|-----------|
| 2  | 22  | Double Diapason I        | 16     | 20" wind                    | extended               | 97 pipes  |
| 3  | 23  | Double Diapason II       | 16     | 15" wind                    | straight               | 73 pipes  |
| 4  | 24  | Double Diapason III      | 16     | 10" wind                    | straight               | 73 pipes  |
| 5  | 25  | Sub Quint                | 10 2/3 | 15" wind                    | straight               | 73 pipes  |
| 6  | 26  | Diapason I               | 8      | 30" wind                    | straight               | 73 pipes  |
| 7  | 27  | Diapason II              | 8      | 30" wind                    | straight               | 73 pipes  |
| 8  | 28  | Diapason III             | 8      | 20" wind                    | straight               | 73 pipes  |
| 9  | 21  | Principal                | 8      | 20" wind                    | ext. Sub Principal     |           |
| 10 | 29  | Diapason IV              | 8      | 15" wind                    | straight               | 73 pipes  |
| 11 | 30  | Diapason V               | 8      | 15" wind                    | straight               | 73 pipes  |
| 12 | 31  | Diapason VI              | 8      | 15" wind                    | straight               | 73 pipes  |
| 13 | 32  | Diapason VII             | 8      | 10" wind                    | straight               | 73 pipes  |
| 14 | 33  | Diapason VIII            | 8      | 10" wind                    | straight               | 73 pipes  |
| 15 | 34  | Diapason IX              | 8      | 10" wind                    | straight               | 73 pipes  |
| 16 | 35  | Diapason X               | 8      | 4" wind                     | straight               | 73 pipes  |
| 17 | 53  | Harmonic Flute           | 8      | 15" wind                    | straight               | 73 pipes  |
| 18 | 54  | Flute Overt              | 8      | 4" wind                     | straight               | 73 pipes  |
| 19 | 36  | Quint                    | 5 1/3  | 20" wind                    | straight               | 73 pipes  |
| 20 | 37  | Octave I                 | 4      | 20" wind                    | straight               | 73 pipes  |
| 21 | 38  | Octave II                | 4      | 20" wind                    | straight               | 73 pipes  |
| 22 | 22  | Octave Diapason          | 4      | 20" wind                    | ext. Double Diapason I |           |
| 23 | 39  | Octave III               | 4      | 15" wind                    | straight               | 73 pipes  |
| 24 | 40  | Octave IV                | 4      | 10" wind                    | straight               | 73 pipes  |
| 25 | 41  | Octave V                 | 4      | 10" wind                    | straight               | 73 pipes  |
| 26 | 55  | Harmonic Flute           | 4      | 15" wind                    | straight               | 73 pipes  |
| 27 | 42  | Gross Tierce             | 3 1/5  | 20" wind                    | straight               | 73 pipes  |
| 28 | 42  | Major Twelfth            | 2 2/3  | 20" wind                    | straight               | 73 pipes  |
| 29 | 44  | Fifteenth I              | 2      | 20" wind                    | straight               | 73 pipes  |
| 30 | 21  | Super Principal          | 2      | 20" wind                    | ext. Sub Principal     |           |
| 31 | 45  | Fifteenth II             | 2      | 15" wind                    | straight               | 73 pipes  |
| 32 | 46  | Fifteenth III            | 2      | 10" wind                    | straight               | 73 pipes  |
| 33 | 47  | Rausch Quint 5-8         | II     | 30" wind                    | straight               | 146 pipes |
| 34 | 48  | Rausch Quint 12-15       | II     | 30" wind                    | straight               | 146 pipes |
| 35 | 49  | Grand Cornet 05-22       | XI     | 20" wind                    | straight               | 803 pipes |
| 36 | 49  | Major Sesquialtera 10-22 | V      | 20" wind                    | straight               | 365 pipes |
| 37 | 51  | Schulze Mixture 12-26    | V      | 4" wind                     | straight               | 365 pipes |
| 38 | 52  | Furniture 17-36          | VI     | 15" wind                    | straight               | 414 pipes |
| 39 | 49  | Scharf Mixture 17-22     | III    | 20" wind                    | from Grand Cornet      |           |
| 40 | 51  | Doublette Mixture 22-26  | II     | 4" wind                     | from Schulze Mixture   |           |
| 41 | 56  | Trumpet                  | 16     | 30" wind                    | straight               | 73 pipes  |
| 42 | 56  | Harmonic Trumpet         | 8      | 30" wind                    | straight               | 73 pipes  |
| 43 | 56  | Harmonic Clarion         | 4      | 30" wind                    | straight               | 73 pipes  |
| 44 | 108 | Chimes                   | 8      | from Great-Solo, unenclosed |                        |           |
| 45 | 107 | Harp                     | 8      | from Great-Solo, unenclosed |                        |           |
| 46 | 107 | Harp                     | 4      | from Great-Solo, unenclosed |                        |           |
| 47 | 94  | Xylophone                | 4      | from Great-Solo, unenclosed |                        |           |

|    |     |                       |    |                             |
|----|-----|-----------------------|----|-----------------------------|
| 48 | 94  | Xylophone             | 2  | from Great-Solo, unenclosed |
| 49 | F,G | Snare Drums Roll      |    | from Percussion             |
| 50 | F,G | Snare Drums Tap       |    | from Percussion             |
| 51 | E   | Snare Drum Roll       |    | from Percussion             |
| 52 | E   | Snare Drum Tap        |    | from Percussion             |
| 53 | P   | Tom-Tom               |    | from Percussion             |
| 54 | O   | Wood Block Roll       |    | from Percussion             |
| 55 | O   | Wood Block Stroke     |    | from Percussion             |
| 56 | M   | Castinets             |    | from Percussion             |
| 57 | L   | Tambourine            |    | from Percussion             |
| 58 | N   | Triangle              |    | from Percussion             |
| 59 |     | Choir to Great        | 16 |                             |
| 60 |     | Choir to Great        | 8  |                             |
| 61 |     | Choir to Great        | 4  |                             |
| 62 |     | Swell to Great        | 16 |                             |
| 63 |     | Swell to Great        | 8  |                             |
| 64 |     | Swell to Great        | 4  |                             |
| 65 |     | Solo to Great         | 8  |                             |
| 66 |     | Solo to Great         | 4  |                             |
| 67 |     | Fanfare to Great      | 8  |                             |
| 68 |     | Fanfare to Great      | 4  |                             |
| 69 |     | Echo to Great         | 16 |                             |
| 70 |     | Echo to Great         | 8  |                             |
| 71 |     | Echo to Great         | 4  |                             |
| 72 |     | Gallery I to Great    |    |                             |
| 73 |     | Gallery II to Great   |    |                             |
| 74 |     | Gallery III to Great  |    |                             |
| 75 |     | Gallery IV to Great   |    |                             |
| 76 |     | Brass Chorus to Great |    |                             |
| 77 |     | String I to Great     |    |                             |
| 78 |     | String II to Great    |    |                             |
| 79 |     | String III to Great   |    |                             |

GREAT-SOLO– Manual 2 Totals: 25 Voices / 25 Ranks / 2,124 Pipes

|    |    |                  |        |          |                       |
|----|----|------------------|--------|----------|-----------------------|
| 1  | 82 | Geigen Principal | 16     | 15" wind | ext. Geigen Principal |
| 2  | 81 | Wald Flute       | 16     | 15" wind | ext. Wald Flute       |
| 3  | 83 | Tibia Clausa     | 16     | 15" wind | ext. Tibia Clausa     |
| 4  | 81 | Wald Quint       | 10 2/3 | 15" wind | ext. Wald Flute       |
| 5  | 83 | Tibia Quint      | 10 2/3 | 15" wind | ext. Tibia Clausa     |
| 6  | 84 | Diapason Phonon  | 8      | 15" wind | extended 73 pipes     |
| 7  | 85 | Horn Diapason    | 8      | 15" wind | extended 85 pipes     |
| 8  | 82 | Geigen Principal | 8      | 15" wind | extended 97 pipes     |
| 9  | 87 | Gemshorn         | 8      | 15" wind | extended 121 pipes    |
| 10 | 88 | Gemshorn Celeste | 8      | 15" wind | extended 89 pipes     |
| 11 | 81 | Wald Flute       | 8      | 15" wind | extended 97 pipes     |
| 12 | 86 | Doppel Gedeckt   | 8      | 15" wind | extended 73 pipes     |

|    |     |                      |       |          |                        |          |
|----|-----|----------------------|-------|----------|------------------------|----------|
| 13 | 87  | Tibia Clausa         | 8     | 15" wind | extended               | 92 pipes |
| 14 | 89  | Viola d'Gamba        | 8     | 15" wind | extended               | 73 pipes |
| 15 | 90  | Vox Celeste          | 8     | 15" wind | extended               | 73 pipes |
| 16 | 91  | Gemshorn Terz        | 6 2/5 | 15" wind | extended               | 97 pipes |
| 17 | 91  | Gemshorn Quint       | 5 1/3 | 15" wind | extended               | 97 pipes |
| 18 | 81  | Wald Quint           | 5 1/3 | 15" wind | ext. Wald Flute        |          |
| 19 | 93  | Gemshorn Septieme    | 4 4/7 | 15" wind | extended               | 85 pipes |
| 20 | 84  | Octave Phonon        | 4     | 15" wind | ext. Diapason Phonon   |          |
| 21 | 85  | Octave               | 4     | 15" wind | ext. Horn Diapason     |          |
| 22 | 82  | Geigen Principal     | 4     | 15" wind | ext. Geigen Principal  |          |
| 23 | 87  | Gemshorn             | 4     | 15" wind | ext. Gemshorn          |          |
| 24 | 88  | Gemshorn Celeste     | 4     | 15" wind | ext. Gemshorn Celeste  |          |
| 25 | 81  | Wald Flute           | 4     | 15" wind | ext. Wald Flute        |          |
| 26 | 86  | Doppel Gedeckt       | 4     | 15" wind | ext. Doppel Gedeckt    |          |
| 27 | 83  | Tibia Clausa         | 4     | 15" wind | ext. Tibia Clausa      |          |
| 28 | 89  | Viola d'Gamba        | 4     | 15" wind | ext. Viola d'Gamba     |          |
| 29 | 87  | Vox Celeste          | 4     | 15" wind | ext. Vox Celeste       |          |
| 30 | 88  | Gemshorn Tenth       | 3 1/5 | 15" wind | ext. Gemshorn Celeste  |          |
| 31 | 91  | Tenth                | 3 1/5 | 15" wind | ext. Gemshorn Terz     |          |
| 32 | 92  | Twelfth              | 2 2/3 | 15" wind | ext. Gemshorn Quint    |          |
| 33 | 81  | Flute Twelfth        | 2 2/3 | 15" wind | ext. Wald Flute        |          |
| 34 | 81  | Minor Twelfth        | 2 2/3 | 15" wind | ext. Tibia Clausa      |          |
| 35 | 93  | Octave Septieme      | 2 2/7 | 15" wind | ext. Gemshorn Septieme |          |
| 36 | 85  | Fifteenth            | 2     | 15" wind | ext. Horn Diapason     |          |
| 37 | 82  | Geigen Fifteenth     | 2     | 15" wind | ext. Geigen Principal  |          |
| 38 | 87  | Gemshorn Fifteenth   | 2     | 15" wind | ext. Gemshorn          |          |
| 39 | 81  | Piccolo              | 2     | 15" wind | ext. Wald Flute        |          |
| 40 | 88  | Gemshorn Seventeenth | 1 3/5 | 15" wind | ext. Gemshorn Celeste  |          |
| 41 | 91  | Seventeenth          | 1 3/5 | 15" wind | ext. Gemshorn Terz     |          |
| 42 | 92  | Nineteenth           | 1 1/3 | 15" wind | ext. Gemshorn Quint    |          |
| 43 | 93  | Twenty-First         | 1 1/7 | 15" wind | ext. Gemshorn Septieme |          |
| 44 | 87  | Gemshorn             | 1     | 15" wind | ext. Gemshorn          |          |
| 45 | 91  | Twenty-Fourth        | 4/5   | 15" wind | ext. Gemshorn Terz     |          |
| 46 | 92  | Twenty-Sixth         | 2/3   | 15" wind | ext. Gemshorn Quint    |          |
| 47 | 87  | Twenty-Ninth         | 1/2   | 15" wind | ext. Gemshorn          |          |
| 48 | 87  | Thirty-Sixth         | 1/4   | 15" wind | ext. Gemshorn          |          |
| 49 | 96  | Saxophone            | 16    | 15" wind | ext. Saxophone         |          |
| 50 | 98  | French Horn          | 16    | 15" wind | ext. French Horn       |          |
| 51 | 97  | English Horn         | 16    | 15" wind | ext. English Horn      |          |
| 52 | 95  | Oboe-Horn            | 16    | 15" wind | ext. Oboe-Horn         |          |
| 53 | 100 | Krummhorn            | 16    | 15" wind | ext. Krummhorn         |          |
| 54 | 99  | Vox Baryton          | 16    | 15" wind | extended               | 85 pipes |
| 55 | 102 | Orchestral Saxophone | 8     | 15" wind | straight               | 73 pipes |
| 56 | 96  | Saxophone            | 8     | 15" wind | extended               | 97 pipes |
| 57 | 101 | Clarinet             | 8     | 15" wind | straight               | 73 pipes |

|    |     |                 |   |          |                               |          |
|----|-----|-----------------|---|----------|-------------------------------|----------|
| 58 | 98  | French Horn     | 8 | 15" wind | extended                      | 85 pipes |
| 59 | 97  | English Horn    | 8 | 15" wind | extended                      | 97 pipes |
| 60 | 95  | Oboe-Horn       | 8 | 15" wind | extended                      | 97 pipes |
| 61 | 103 | Orchestral Oboe | 8 | 15" wind | straight                      | 73 pipes |
| 62 | 100 | Krummhorn       | 8 | 15" wind | extended                      | 85 pipes |
| 63 | 105 | Vox Humana      | 8 | 15" wind | straight                      | 73 pipes |
| 64 | 99  | Vox Humana      | 8 | 15" wind | ext. Vox Baryton              |          |
| 65 | 106 | Kinura          | 8 | 15" wind | straight                      | 73 pipes |
| 66 | 96  | Saxophone       | 4 | 15" wind | ext. Saxophone                |          |
| 67 | 98  | French Horn     | 4 | 15" wind | ext. French Horn              |          |
| 68 | 97  | English Horn    | 4 | 15" wind | ext. English Horn             |          |
| 69 | 95  | Oboe-Horn       | 4 | 15" wind | ext. Oboe-Horn                |          |
| 70 | 100 | Krummhorn       | 4 | 15" wind | ext. Krummhorn                |          |
| 71 | 99  | Vox Baryton     | 4 | 15" wind | ext. Vox Baryton              |          |
| 72 | 64  | Flute Twelfth   | 2 | 15" wind | straight (originally on Solo) | 61 pipes |

#### GRAND GREAT – Manual 2

|    |    |                 |    |           |                                    |
|----|----|-----------------|----|-----------|------------------------------------|
| 1  | 4  | Principal       | 8  | 30" wind  | from Principal, Pedal Right        |
| 2  | 3  | Tibia Major     | 8  | 30" wind  | from Tibia Major, Pedal Right      |
| 3  | 1  | Tibia Clausa    | 8  | 20" wind  | from Tibia Clausa, Pedal Right     |
| 4  | 3  | Tibia Melody    | 4  | 30" wind  | from Tibia Major, Pedal Right      |
| 5  | 5  | Viol            | 8  | 30" wind  | from Viol, Pedal Right             |
| 6  | 5  | Viol Melody     | 4  | 30" wind  | from Viol, Pedal Right             |
| 7  | 21 | Octave          | 4  | 20" wind  | from Sub Principal, Great          |
| 8  | 4  | Super Octave    | 2  | 30" wind  | from Principal, Pedal Right        |
| 9  | 17 | Dulzian         | 32 | 35" wind  | from Dulzian, Pedal Right          |
| 10 | 8  | Trombone        | 16 | 35" wind  | from Bombardon, Pedal Right        |
| 11 | 8  | Trombone Melody | 8  | 35" wind  | from Bombardon, Pedal Right        |
| 12 | 9  | Ophicleide      | 8  | 100" wind | from Grand Ophicleide, Pedal Right |
| 13 | 10 | Trumpet         | 8  | 20" wind  | from Trumpet, Pedal Right          |
| 14 | 10 | Clarion         | 4  | 20" wind  | from Trumpet, Pedal Right          |
| 15 | 10 | Clarion Melody  | 4  | 20" wind  | from Trumpet, Pedal Right          |
| 16 |    | Grand Great On  |    |           |                                    |

#### GREAT 2nd TOUCH – Manual 2

|   |       |                  |   |          |                             |
|---|-------|------------------|---|----------|-----------------------------|
| 1 | 254   | Viol Phonon      | 8 | 25" wind | from Contra Basso, String I |
| 2 | 265   | Violoncello      | 8 | 15" wind | from Double Bass, String II |
| 3 | 266   | Viol             | 8 | 15" wind | from Contra Bass, String II |
| 4 | 267   | Viol             | 8 | 15" wind | from Contra Viol, String II |
| 5 | 108   | Chimes           | 8 |          | from Great-Solo, unenclosed |
| 6 | E,F,G | Muffled Drums    |   |          | from Percussion             |
| 7 |       | Solo to Great    | 8 |          |                             |
| 8 |       | Solo to Great    | 4 |          |                             |
| 9 |       | Fanfare to Great | 8 |          |                             |

- 10 Gallery I to Great
- 11 Brass Chorus to Great
- 12 String I to Great
- 13 String II to Great

SWELL – Manual 3 Totals: 36 voices / 55 ranks / 4,456 pipes

|    |     |                            |      |          |                      |           |
|----|-----|----------------------------|------|----------|----------------------|-----------|
| 1  | 117 | Double Diapason            | 16   | 15" wind | extended             | 104 pipes |
| 2  | 131 | Contra Gamba               | 16   | 15" wind | extended             | 104 pipes |
| 3  | 118 | Diapason I                 | 8    | 15" wind | straight             | 80 pipes  |
| 4  | 119 | Diapason II                | 8    | 15" wind | straight             | 80 pipes  |
| 5  | 120 | Waldhorn                   | 8    | 15" wind | straight             | 80 pipes  |
| 6  | 124 | Tibia Plena                | 8    | 15" wind | straight             | 80 pipes  |
| 7  | 125 | Hohl Flute                 | 8    | 15" wind | straight             | 80 pipes  |
| 8  | 127 | Harmonic Flute             | 8    | 15" wind | straight             | 80 pipes  |
| 9  | 312 | Harmonic Flute Celeste     | 8    | 15" wind | straight             | 80 pipes  |
| 10 | 126 | Gross Gedeckt              | 8    | 15" wind | straight             | 80 pipes  |
| 11 | 135 | Gamba                      | 8    | 15" wind | straight             | 80 pipes  |
| 12 | 136 | Gamba Celeste              | 8    | 15" wind | straight             | 80 pipes  |
| 13 | 132 | Violin                     | 8    | 15" wind | straight             | 80 pipes  |
| 14 | 133 | Viol Celestes I (2 ranks)  | 8    | 15" wind | straight             | 134 pipes |
| 15 | 134 | Viol Celestes II (2 ranks) | 8    | 15" wind | straight             | 146 pipes |
| 16 | 128 | Ocarina                    | 4    | 15" wind | straight             | 80 pipes  |
| 17 | 121 | Octave I                   | 4    | 15" wind | straight             | 80 pipes  |
| 18 | 117 | Octave II                  | 4    | 15" wind | ext. Double Diapason |           |
| 19 | 129 | Traverse Flute             | 4    | 15" wind | straight             | 80 pipes  |
| 20 | 313 | Silver Flute               | 4    | 15" wind | straight             | 80 pipes  |
| 21 | 137 | Gambette                   | 4    | 15" wind | straight             | 80 pipes  |
| 22 | 131 | Salicet                    | 4    | 15" wind | ext. Contra Gamba    |           |
| 23 | 122 | Fifteenth                  | 2    | 15" wind | straight             | 80 pipes  |
| 24 | 130 | Orchestral Piccolo         | 2    | 15" wind | straight             | 80 pipes  |
| 25 | 317 | Cymbale 12–26              | VIII | 15" wind | straight             | 640 pipes |
| 26 | 123 | Furniture 15–29            | V    | 15" wind | straight             | 400 pipes |
| 27 | 146 | Plein Jeu 15–36            | VII  | 15" wind | straight             | 560 pipes |
| 28 | 138 | Double Trumpet             | 16   | 30" wind | extended             | 104 pipes |
| 29 | 142 | Double Horn                | 16   | 15" wind | extended             | 104 pipes |
| 30 | 139 | Harmonic Trumpet           | 8    | 30" wind | straight             | 80 pipes  |
| 31 | 140 | Field Trumpet              | 8    | 30" wind | straight             | 80 pipes  |
| 32 | 143 | Posaune                    | 8    | 15" wind | straight             | 80 pipes  |
| 33 | 144 | Cornopean                  | 8    | 15" wind | straight             | 80 pipes  |
| 34 | 314 | Muted Trumpet              | 8    | 15" wind | straight             | 80 pipes  |
| 35 | 145 | Flugel Horn                | 8    | 15" wind | straight             | 80 pipes  |
| 36 | 315 | Krummhorn                  | 8    | 15" wind | straight             | 80 pipes  |
| 37 | 316 | Vox Humana                 | 8    | 15" wind | straight             | 80 pipes  |
| 38 | 141 | Trumpet Clarion            | 4    | 30" wind | straight             | 80 pipes  |
| 39 | 138 | Trumpet Clarion            | 4    | 15" wind | ext. Double Trumpet  |           |
| 40 | 142 | Octave Horn                | 4    | 15" wind | ext. Double Horn     |           |

|    |                       |    |
|----|-----------------------|----|
| 41 | Sub Octave            | 16 |
| 42 | Octave                | 4  |
| 43 | Choir to Swell        | 16 |
| 44 | Choir to Swell        | 8  |
| 45 | Choir to Swell        | 4  |
| 46 | Solo to Swell         | 16 |
| 47 | Solo to Swell         | 8  |
| 48 | Solo to Swell         | 4  |
| 49 | Fanfare to Swell      | 8  |
| 50 | Fanfare to Swell      | 4  |
| 51 | Echo to Swell         | 16 |
| 52 | Echo to Swell         | 8  |
| 53 | Echo to Swell         | 4  |
| 54 | Gallery I to Swell    |    |
| 55 | Gallery II to Swell   |    |
| 56 | Gallery III to Swell  |    |
| 57 | Gallery IV to Swell   |    |
| 58 | Brass Chorus to Swell |    |
| 59 | String I to Swell     |    |
| 60 | String II to Swell    |    |
| 61 | String III to Swell   |    |

**SWELL-CHOIR – Manual 3 Totals: 17 voices / 17 ranks / 1,542 pipes**

|    |     |                     |       |          |                         |
|----|-----|---------------------|-------|----------|-------------------------|
| 1  | 147 | Gross Gedeckt       | 16    | 15" wind | ext. Gross Gedeckt      |
| 2  | 311 | Stopped Diapason    | 16    | 10" wind | ext. Stopped Diapason   |
| 3  | 148 | Cone Gamba          | 16    | 15" wind | ext. Cone Gamba         |
| 4  | 152 | Gemshorn            | 8     | 15" wind | extended 121 pipes      |
| 5  | 153 | Gemshorn Celeste I  | 8     | 15" wind | extended 92 pipes       |
| 6  | 154 | Gemshorn Celeste II | 8     | 15" wind | extended 89 pipes       |
| 7  | 149 | Clarabella          | 8     | 15" wind | extended 80 pipes       |
| 8  | 150 | Doppel Spitz Flute  | 8     | 10" wind | extended 85 pipes       |
| 9  | 147 | Doppel Gedeckt      | 8     | 15" wind | extended 97 pipes       |
| 10 | 311 | Stopped Diapason    | 8     | 10" wind | extended 92 pipes       |
| 11 | 148 | Cone Gamba          | 8     | 15" wind | extended 85 pipes       |
| 12 | 155 | Third               | 6 2/5 | 10" wind | extended 97 pipes       |
| 13 | 156 | Fifth               | 5 1/3 | 10" wind | extended 109 pipes      |
| 14 | 156 | Gemshorn Quint      | 5 1/3 | 15" wind | ext. Gemshorn Celeste I |
| 15 | 148 | Gamba Quint         | 5 1/3 | 15" wind | ext. Cone Gamba         |
| 16 | 157 | Seventh             | 4 4/7 | 10" wind | extended 85 pipes       |
| 17 | 152 | Octave Gemshorn     | 4     | 15" wind | ext. Gemshorn           |
| 18 | 149 | Claribel Flute      | 4     | 15" wind | ext. Clarabella         |
| 19 | 150 | Spitz Flute         | 4     | 10" wind | ext. Doppel Spitz Flute |
| 20 | 147 | Doppel Flute        | 4     | 15" wind | ext. Doppel Gedeckt     |
| 21 | 311 | Stopped Flute       | 4     | 10" wind | ext. Stopped Diapason   |
| 22 | 151 | Zauber Flute        | 4     | 15" wind | extended 85 pipes       |
| 23 | 148 | Cone Flute          | 4     | 15" wind | ext. Cone Gamba         |



|    |     |                       |    |       |          |              |                     |
|----|-----|-----------------------|----|-------|----------|--------------|---------------------|
| 24 | 158 | Ninth                 | 3  | 5/9   | 10" wind | extended     | 85 pipes            |
| 25 | 155 | Major Tenth           | 3  | 1/5   | 10" wind | ext.         | Third               |
| 26 | 154 | Gemshorn Tenth        | 3  | 1/5   | 15" wind | ext.         | Gemshorn Celeste II |
| 27 | 159 | Eleventh              | 2  | 10/11 | 10" wind | extended     | 85 pipes            |
| 28 | 153 | Gemshorn Twelfth      | 2  | 2/3   | 15" wind | ext.         | Gemshorn Celeste I  |
| 29 | 156 | Twelfth               | 2  | 2/3   | 10" wind | ext.         | Fifth               |
| 30 | 149 | Flute Twelfth         | 2  | 2/3   | 15" wind | ext.         | Clarabella          |
| 31 | 311 | Stopped Flute Twelfth | 2  | 2/3   | 10" wind | ext.         | Stopped Diapason    |
| 32 | 157 | Octave Septieme       | 2  | 2/7   | 10" wind | ext.         | Seventh             |
| 33 | 152 | Gemshorn Fifteenth    | 2  |       | 15" wind | ext.         | Gemshorn            |
| 34 | 147 | Gedeckt Fifteenth     | 2  |       | 15" wind | ext.         | Doppel Gedeckt      |
| 35 | 151 | Magic Flute           | 2  |       | 15" wind | ext.         | Zauber Flute        |
| 36 | 158 | Sixteenth             | 1  | 7/9   | 10" wind | ext.         | Ninth               |
| 37 | 155 | Major Seventeenth     | 1  | 3/5   | 10" wind | ext.         | Third               |
| 38 | 154 | Gemshorn Seventeenth  | 1  | 3/5   | 15" wind | ext.         | Gemshorn Celeste II |
| 39 | 159 | Eighteenth            | 1  | 5/11  | 10" wind | ext.         | Eleventh            |
| 40 | 156 | Major Nineteenth      | 1  | 1/3   | 10" wind | ext.         | Fifth               |
| 41 | 153 | Gemshorn Nineteenth   | 1  | 1/3   | 15" wind | ext.         | Gemshorn Celeste I  |
| 42 | 156 | Twenty-First          | 1  | 1/7   | 10" wind | ext.         | Seventh             |
| 43 | 152 | Twenty-Second         | 1  |       | 15" wind | ext.         | Gemshorn            |
| 44 | 151 | Zauber Twenty-Second  | 1  |       | 15" wind | ext.         | Zauber Flute        |
| 45 | 158 | Twenty-Third          |    | 8/9   | 10" wind | ext.         | Ninth               |
| 46 | 155 | Twenty-Fourth         |    | 4/5   | 10" wind | ext.         | Third               |
| 47 | 159 | Twenty-Fifth          |    | 8/11  | 10" wind | ext.         | Eleventh            |
| 48 | 156 | Twenty-Sixth          |    | 2/3   | 10" wind | ext.         | Fifth               |
| 49 | 152 | Twenty-Ninth          |    | 1/2   | 15" wind | ext.         | Gemshorn            |
| 50 | 156 | Thirty-Third          |    | 1/3   | 10" wind | ext.         | Fifth               |
| 51 | 152 | Thirty-Sixth          |    | 1/4   | 15" wind | ext.         | Gemshorn            |
| 52 | 19  | Fagotto               | 32 |       | 20" wind | from         | Fagotto, Pedal Left |
| 53 | 160 | Contra Oboe           | 16 |       | 15" wind | ext.         | Oboe                |
| 54 | 161 | Bass Clarinet         | 16 |       | 15" wind | ext.         | Clarinet            |
| 55 | 162 | Bass Vox Humana       | 16 |       | 15" wind | ext.         | Vox Humana          |
| 56 | 160 | Oboe                  | 8  |       | 15" wind | extended     | 85 pipes            |
| 57 | 161 | Clarinet              | 8  |       | 15" wind | extended     | 85 pipes            |
| 58 | 162 | Vox Humana            | 8  |       | 15" wind | extended     | 85 pipes            |
| 59 | 160 | Octave Oboe           | 4  |       | 15" wind | ext.         | Oboe                |
| 60 | 161 | Octave Clarinet       | 4  |       | 15" wind | ext.         | Clarinet            |
| 61 | 162 | Vox Humana            | 4  |       | 15" wind | ext.         | Vox Humana          |
| 62 | 163 | Marimba Harp Repeat   | 8  |       | from     | Marimba Harp |                     |
| 63 | 163 | Marimba Harp Stroke   | 8  |       | from     | Marimba Harp |                     |
| 64 | 163 | Marimba Harp Repeat   | 4  |       | from     | Marimba Harp |                     |
| 65 | 163 | Marimba Harp Stroke   | 4  |       | from     | Marimba Harp |                     |
| 66 | 164 | Glockenspiel Repeat   | 4  |       | from     | Glockenspiel |                     |
| 67 | 164 | Glockenspiel Single   | 4  |       | from     | Glockenspiel |                     |
| 68 | 164 | Glockenspiel Single   | 2  |       | from     | Glockenspiel |                     |

SOLO – Manual 4 Totals: 22 voices / 33 ranks / 2,085 pipes

|    |     |                     |    |     |           |  |
|----|-----|---------------------|----|-----|-----------|--|
| 1  | 59  | Major Flute         | 16 |     | 30" wind  | ext. Major Flute                             |
| 2  | 59  | Flute Quint         | 10 | 2/3 | 30" wind  | ext. Major Flute                             |
| 3  | 71  | Stentor Diapason    | 8  |     | 30" wind  | straight 61 pipes                            |
| 4  | 79  | Diapason            | 8  |     | 30" wind  | 8' rank from Grand Chorus                    |
| 5  | 60  | Tibia Rex           | 8  |     | 30" wind  | straight 61 pipes                            |
| 6  | 59  | Major Flute         | 8  |     | 30" wind  | extended 85 pipes                            |
| 7  | 61  | Hohl Flute          | 8  |     | 20" wind  | straight 61 pipes                            |
| 8  | 62  | Flute Overte        | 8  |     | 20" wind  | straight 61 pipes                            |
| 9  | 66  | Cello Pomposa       | 8  |     | 20" wind  | straight 61 pipes                            |
| 10 | 67  | Cello Celeste       | 8  |     | 20" wind  | straight 61 pipes                            |
| 11 | 68  | Violin              | 8  |     | 20" wind  | straight 61 pipes                            |
| 12 | 69  | Violin Celeste      | 8  |     | 20" wind  | straight 61 pipes                            |
| 13 | 59  | Flute Quint         | 5  | 1/3 | 30" wind  | ext. Major Flute                             |
| 14 | 72  | Stentor Octave      | 4  |     | 30" wind  | straight 61 pipes                            |
| 15 | 79  | Octave              | 4  |     | 30" wind  | 4' rank from Grand Chorus                    |
| 16 | 59  | Major Flute         | 4  |     | 30" wind  | ext. Major Flute                             |
| 17 | 63  | Wald Flute          | 4  |     | 30" wind  | straight 61 pipes                            |
| 18 | 70  | Viola Pomposa       | 4  |     | 20" wind  | straight 61 pipes                            |
| 19 | 65  | Harmonic Piccolo    | 2  |     | 20" wind  | straight 61 pipes                            |
| 20 | 79  | Grand Chorus 1–29   | IX |     | 30" wind  | straight 549 pipes                           |
| 21 | 80  | Carillon 17–24      | IV |     | 30" wind  | straight 244 pipes                           |
| 22 | 73  | Tuba Magna          | 16 |     | 50" wind  | ext. Tuba Magna                              |
| 23 | 74  | Trumpet Profunda    | 16 |     | 30" wind  | ext. Trumpet Profunda                        |
| 24 | 74  | Trumpet Quint       | 10 | 2/3 | 30" wind  | ext. Trumpet Profunda                        |
| 25 | 75  | Tuba Imperial       | 8  |     | 100" wind | straight 61 pipes                            |
| 26 | 73  | Tuba Magna          | 8  |     | 50" wind  | extended 85 pipes                            |
| 27 | 78  | Bugle               | 8  |     | 50" wind  | straight 61 pipes                            |
| 28 | 76  | Trumpet Royal       | 8  |     | 30" wind  | straight 61 pipes                            |
| 29 | 74  | Trumpet Profunda    | 8  |     | 30" wind  | extended 85 pipes                            |
| 30 | 77  | English (Post) Horn | 8  |     | 30" wind  | straight 61 pipes                            |
| 31 | 104 | French Horn         | 8  |     | 20" wind  | straight (originally on Great-Solo) 61 pipes |
| 32 | 73  | Magna Fifth         | 5  | 1/3 | 50" wind  | ext. Tuba Magna                              |
| 33 | 73  | Tuba Clarion        | 4  |     | 50" wind  | ext. Tuba Magna                              |
| 34 | 74  | Trumpet Clarion     | 4  |     | 30" wind  | ext. Trumpet Profunda                        |
| 35 |     | Sub Octave          | 16 |     |           |  |
| 36 |     | Octave              | 4  |     |           |  |
| 37 |     | Choir to Solo       | 8  |     |           |  |
| 38 |     | Great to Solo       | 8  |     |           |  |
| 39 |     | Fanfare to Solo     | 8  |     |           |  |
| 40 |     | Fanfare to Solo     | 4  |     |           |  |
| 41 |     | Echo to Solo        | 8  |     |           |  |
| 42 |     | Gallery I to Solo   |    |     |           |  |
| 43 |     | Gallery II to Solo  |    |     |           |  |
| 44 |     | Gallery III to Solo |    |     |           |  |

- 45 Gallery IV to Solo
- 46 Brass Chorus to Solo
- 47 String I to Solo
- 48 String II to Solo
- 49 String III to Solo

SOLO-GREAT – Manual 4

|    |    |                    |    |     |          |                 |
|----|----|--------------------|----|-----|----------|-----------------|
| 1  | 82 | Geigen Principal   | 16 |     | 15" wind | from Great-Solo |
| 2  | 81 | Wald Flute         | 16 |     | 15" wind | from Great-Solo |
| 3  | 83 | Tibia Clausa       | 16 |     | 15" wind | from Great-Solo |
| 4  | 81 | Wald Quint         | 10 | 2/3 | 15" wind | from Great-Solo |
| 5  | 83 | Tibia Quint        | 10 | 2/3 | 15" wind | from Great-Solo |
| 6  | 84 | Diapason Phonon    | 8  |     | 15" wind | from Great-Solo |
| 7  | 85 | Horn Diapason      | 8  |     | 15" wind | from Great-Solo |
| 8  | 82 | Geigen Principal   | 8  |     | 15" wind | from Great-Solo |
| 9  | 87 | Gemshorn           | 8  |     | 15" wind | from Great-Solo |
| 10 | 88 | Gemshorn Celeste   | 8  |     | 15" wind | from Great-Solo |
| 11 | 81 | Wald Flute         | 8  |     | 15" wind | from Great-Solo |
| 12 | 86 | Doppel Gedeckt     | 8  |     | 15" wind | from Great-Solo |
| 13 | 87 | Tibia Clausa       | 8  |     | 15" wind | from Great-Solo |
| 14 | 89 | Viola d'Gamba      | 8  |     | 15" wind | from Great-Solo |
| 15 | 90 | Vox Celeste        | 8  |     | 15" wind | from Great-Solo |
| 16 | 91 | Gemshorn Terz      | 6  | 2/5 | 15" wind | from Great-Solo |
| 17 | 91 | Gemshorn Quint     | 5  | 1/3 | 15" wind | from Great-Solo |
| 18 | 81 | Wald Quint         | 5  | 1/3 | 15" wind | from Great-Solo |
| 19 | 93 | Gemshorn Septieme  | 4  | 4/7 | 15" wind | from Great-Solo |
| 20 | 84 | Octave Phonon      | 4  |     | 15" wind | from Great-Solo |
| 21 | 85 | Octave             | 4  |     | 15" wind | from Great-Solo |
| 22 | 82 | Geigen Principal   | 4  |     | 15" wind | from Great-Solo |
| 23 | 87 | Gemshorn           | 4  |     | 15" wind | from Great-Solo |
| 24 | 88 | Gemshorn Celeste   | 4  |     | 15" wind | from Great-Solo |
| 25 | 81 | Wald Flute         | 4  |     | 15" wind | from Great-Solo |
| 26 | 86 | Doppel Gedeckt     | 4  |     | 15" wind | from Great-Solo |
| 27 | 83 | Tibia Clausa       | 4  |     | 15" wind | from Great-Solo |
| 28 | 89 | Viola d'Gamba      | 4  |     | 15" wind | from Great-Solo |
| 29 | 87 | Vox Celeste        | 4  |     | 15" wind | from Great-Solo |
| 30 | 88 | Gemshorn Tenth     | 3  | 1/5 | 15" wind | from Great-Solo |
| 31 | 91 | Tenth              | 3  | 1/5 | 15" wind | from Great-Solo |
| 32 | 92 | Twelfth            | 2  | 2/3 | 15" wind | from Great-Solo |
| 33 | 81 | Flute Twelfth      | 2  | 2/3 | 15" wind | from Great-Solo |
| 34 | 81 | Minor Twelfth      | 2  | 2/3 | 15" wind | from Great-Solo |
| 35 | 93 | Octave Septieme    | 2  | 2/7 | 15" wind | from Great-Solo |
| 36 | 85 | Fifteenth          | 2  |     | 15" wind | from Great-Solo |
| 37 | 82 | Geigen Fifteenth   | 2  |     | 15" wind | from Great-Solo |
| 38 | 87 | Gemshorn Fifteenth | 2  |     | 15" wind | from Great-Solo |
| 39 | 81 | Piccolo            | 2  |     | 15" wind | from Great-Solo |

|    |     |                      |             |     |          |                             |                 |
|----|-----|----------------------|-------------|-----|----------|-----------------------------|-----------------|
| 40 | 88  | Gemshorn             | Seventeenth | 1   | 3/5      | 15" wind                    | from Great-Solo |
| 41 | 91  | Seventeenth          | 1           | 3/5 | 15" wind | from Great-Solo             |                 |
| 42 | 92  | Nineteenth           | 1           | 1/3 | 15" wind | from Great-Solo             |                 |
| 43 | 93  | Twenty-First         | 1           | 1/7 | 15" wind | from Great-Solo             |                 |
| 44 | 87  | Gemshorn             | 1           |     | 15" wind | from Great-Solo             |                 |
| 45 | 91  | Twenty-Fourth        |             | 4/5 | 15" wind | from Great-Solo             |                 |
| 46 | 92  | Twenty-Sixth         |             | 2/3 | 15" wind | from Great-Solo             |                 |
| 47 | 87  | Twenty-Ninth         |             | 1/2 | 15" wind | from Great-Solo             |                 |
| 48 | 87  | Thirty-Sixth         |             | 1/4 | 15" wind | from Great-Solo             |                 |
| 49 | 96  | Saxophone            | 16          |     | 15" wind | from Great-Solo             |                 |
| 50 | 98  | French Horn          | 16          |     | 15" wind | from Great-Solo             |                 |
| 51 | 97  | English Horn         | 16          |     | 15" wind | from Great-Solo             |                 |
| 52 | 95  | Oboe-Horn            | 16          |     | 15" wind | from Great-Solo             |                 |
| 53 | 100 | Krummhorn            | 16          |     | 15" wind | from Great-Solo             |                 |
| 54 | 99  | Vox Baryton          | 16          |     | 15" wind | from Great-Solo             |                 |
| 55 | 102 | Orchestral Saxophone | 8           |     | 15" wind | from Great-Solo             |                 |
| 56 | 96  | Saxophone            | 8           |     | 15" wind | from Great-Solo             |                 |
| 57 | 101 | Clarinet             | 8           |     | 15" wind | from Great-Solo             |                 |
| 58 | 98  | French Horn          | 8           |     | 15" wind | from Great-Solo             |                 |
| 59 | 97  | English Horn         | 8           |     | 15" wind | from Great-Solo             |                 |
| 60 | 95  | Oboe-Horn            | 8           |     | 15" wind | from Great-Solo             |                 |
| 61 | 103 | Orchestral Oboe      | 8           |     | 15" wind | from Great-Solo             |                 |
| 62 | 100 | Krummhorn            | 8           |     | 15" wind | from Great-Solo             |                 |
| 63 | 105 | Vox Humana           | 8           |     | 15" wind | from Great-Solo             |                 |
| 64 | 99  | Vox Humana           | 8           |     | 15" wind | from Great-Solo             |                 |
| 65 | 106 | Kinura               | 8           |     | 15" wind | from Great-Solo             |                 |
| 66 | 96  | Saxophone            | 4           |     | 15" wind | from Great-Solo             |                 |
| 67 | 98  | French Horn          | 4           |     | 15" wind | from Great-Solo             |                 |
| 68 | 97  | English Horn         | 4           |     | 15" wind | from Great-Solo             |                 |
| 69 | 95  | Oboe-Horn            | 4           |     | 15" wind | from Great-Solo             |                 |
| 70 | 100 | Krummhorn            | 4           |     | 15" wind | from Great-Solo             |                 |
| 71 | 99  | Vox Baryton          | 4           |     | 15" wind | from Great-Solo             |                 |
| 72 | 64  | Flute Twelfth        | 2           | 2/3 | 15" wind | from Great-Solo             |                 |
| 73 | 108 | Chimes               | 8           |     |          | from Great-Solo, unenclosed |                 |
| 74 | 107 | Harp                 | 8           |     |          | from Great-Solo, unenclosed |                 |
| 75 | 107 | Harp                 | 4           |     |          | from Great-Solo, unenclosed |                 |
| 76 | 94  | Xylophone            | 4           |     |          | from Great-Solo, unenclosed |                 |
| 77 | 94  | Xylophone            | 2           |     |          | from Great-Solo, unenclosed |                 |

FANFARE – Manual 5 Totals: 21 voices / 36 ranks / 2,364 pipes

|   |     |                  |    |  |          |          |                      |
|---|-----|------------------|----|--|----------|----------|----------------------|
| 1 | 197 | Major Flute      | 16 |  | 20" wind | extended | 85 pipes             |
| 2 | 212 | Stentor Diapason | 8  |  | 35" wind | 8' rank  | from Stentor Mixture |
| 3 | 199 | Stentorphone     | 8  |  | 20" wind | straight | 61 pipes             |
| 4 | 198 | Stentor Flute    | 8  |  | 35" wind | straight | 61 pipes             |
| 5 | 199 | Pileata Magna    | 8  |  | 20" wind | straight | 61 pipes             |
| 6 | 304 | Gamba Tuba       | 8  |  | 20" wind | straight | 61 pipes             |

|    |     |                        |     |              |                              |           |
|----|-----|------------------------|-----|--------------|------------------------------|-----------|
| 7  | 305 | Gamba Tuba Celeste     | 8   | 20" wind     | straight                     | 61 pipes  |
| 8  | 212 | Stentor Octave         | 4   | 35" wind     | 4' rank from Stentor Mixture |           |
| 9  | 197 | Major Flute            | 4   | 20" wind     | ext. Major Flute             |           |
| 10 | 201 | Flute Octavante        | 4   | 20" wind     | straight                     | 61 pipes  |
| 11 | 306 | Gamba Clarion          | 4   | 20" wind     | straight                     | 61 pipes  |
| 12 | 202 | Recorder Twelfth       | 2   | 2/3 20" wind | straight                     | 61 pipes  |
| 13 | 203 | Fife                   | 2   | 20" wind     | straight                     | 61 pipes  |
| 14 | 212 | Stentor Mixture 1-22   | VII | 35" wind     | straight                     | 427 pipes |
| 15 | 307 | Harmonic Mixture 17-29 | VI  | 20" wind     | straight                     | 366 pipes |
| 16 | 204 | Cymbale 19-33          | V   | 20" wind     | straight                     | 305 pipes |
| 17 | 205 | Contra Posaune         | 16  | 50" wind     | ext. Posaune                 |           |
| 18 | 206 | Contra Bombardon       | 16  | 35" wind     | ext. Bombardon               |           |
| 19 | 299 | Contra Trombone        | 16  | 35" wind     | ext. Trombone                |           |
| 20 | 209 | Tromba Quint           | 10  | 2/3 20" wind | extended                     | 85 pipes  |
| 21 | 207 | Harmonic Tuba          | 8   | 50" wind     | extended                     | 73 pipes  |
| 22 | 207 | Tuba Melody            | 4   | 50" wind     | from Harmonic Tuba           |           |
| 23 | 208 | Ophicleide             | 8   | 50" wind     | straight                     | 61 pipes  |
| 24 | 205 | Posaune                | 8   | 50" wind     | extended                     | 85 pipes  |
| 25 | 206 | Bombardon              | 8   | 35" wind     | extended                     | 97 pipes  |
| 26 | 299 | Trombone               | 8   | 35" wind     | extended                     | 97 pipes  |
| 27 | 209 | Tromba                 | 8   | 20" wind     | ext. Tromba Quint            |           |
| 28 | 210 | Tromba Tierce          | 6   | 2/5 20" wind | extended                     | 73 pipes  |
| 29 | 299 | Trombone Fifth         | 5   | 1/3 35" wind | ext. Trombone                |           |
| 30 | 209 | Tromba Fifth           | 5   | 1/3 20" wind | ext. Tromba Quint            |           |
| 31 | 211 | Major Clarion          | 4   | 50" wind     | straight                     | 61 pipes  |
| 32 | 207 | Harmonic Clarion       | 4   | 50" wind     | ext. Harmonic Tuba           |           |
| 33 | 206 | Octave Posaune         | 4   | 50" wind     | ext. Posaune                 |           |
| 34 | 206 | Bombardon              | 4   | 35" wind     | ext. Bombardon               |           |
| 35 | 299 | Trombone Clarion       | 4   | 35" wind     | ext. Trombone                |           |
| 36 | 210 | Tromba Tierce          | 3   | 1/5 20" wind | ext. Tromba Tierce           |           |
| 37 | 209 | Tromba Twelfth         | 2   | 2/3 20" wind | ext. Tromba Quint            |           |
| 38 | 206 | Clarine Fifteenth      | 2   | 35" wind     | ext. Bombardon               |           |
| 39 |     | Choir to Fanfare       | 16  |              |                              |           |
| 40 |     | Choir to Fanfare       | 8   |              |                              |           |
| 41 |     | Choir to Fanfare       | 4   |              |                              |           |
| 42 |     | Great to Fanfare       | 8   |              |                              |           |
| 43 |     | Swell to Fanfare       | 16  |              |                              |           |
| 44 |     | Swell to Fanfare       | 8   |              |                              |           |
| 45 |     | Swell to Fanfare       | 4   |              |                              |           |
| 46 |     | Solo to Fanfare        | 8   |              |                              |           |
| 47 |     | Echo to Fanfare        | 8   |              |                              |           |
| 48 |     | Gallery I to Fanfare   |     |              |                              |           |
| 49 |     | Gallery II to Fanfare  |     |              |                              |           |
| 50 |     | Gallery III to Fanfare |     |              |                              |           |
| 51 |     | Gallery IV to Fanfare  |     |              |                              |           |
| 52 |     | String I to Fanfare    |     |              |                              |           |

53 String II to Fanfare  
 54 String III to Fanfare

ECHO – Manual 6 Totals: 22 voices / 27 ranks / 1,898 pipes

|    |     |                        |       |     |          |                             |
|----|-----|------------------------|-------|-----|----------|-----------------------------|
| 1  | 214 | Spire Flute            | 16    |     | 15" wind | ext. Spire Flute            |
| 2  | 298 | Contra Violone         | 16    |     | 25" wind | ext. Violone                |
| 3  | 213 | Contra Gamba           | 16    |     | 15" wind | ext. Gamba                  |
| 4  | 215 | Diapason               | 8     |     | 15" wind | straight 61 pipes           |
| 5  | 219 | Waldhorn               | 8     |     | 15" wind | straight 61 pipes           |
| 6  | 220 | Clarabella             | 8     |     | 15" wind | extended 97 pipes           |
| 7  | 214 | Spire Flute            | 8     |     | 15" wind | extended 109 pipes          |
| 8  | 216 | Spitz Flute            | 8     |     | 15" wind | straight 61 pipes           |
| 9  | 217 | Spitz Flute Celeste I  | 8     |     | 15" wind | straight 61 pipes           |
| 10 | 218 | Spitz Flute Celeste II | 8     |     | 15" wind | extended 77 pipes           |
| 11 | 222 | Flute Sylvestre        | 8     |     | 15" wind | straight 61 pipes           |
| 12 | 223 | Flute Celeste          | 8     |     | 15" wind | straight 61 pipes           |
| 13 | 221 | Tibia Mollis           | 8     |     | 15" wind | straight 61 pipes           |
| 14 | 298 | Violone                | 8     |     | 25" wind | extended 97 pipes           |
| 15 | 319 | Violone Celeste        | 8     |     | 25" wind | straight 56 pipes           |
| 16 | 213 | Gamba                  | 8     |     | 15" wind | extended 85 pipes           |
| 17 | 220 | Open Flute             | 4     |     | 15" wind | ext. Clarabella             |
| 18 | 224 | Rohr Flute             | 4     |     | 15" wind | straight 61 pipes           |
| 19 | 214 | Spire Flute            | 4     |     | 15" wind | ext. Spire Flute            |
| 20 | 298 | Violone                | 4     |     | 25" wind | ext. Violone                |
| 21 | 213 | Gamba                  | 4     |     | 15" wind | ext. Gamba                  |
| 22 | 218 | Spitz Tenth            | 3     | 1/5 | 15" wind | ext. Spitz Flute Celeste II |
| 23 | 220 | Open Flute             | 2     | 2/3 | 15" wind | ext. Clarabella             |
| 24 | 214 | Spire Flute            | 2     | 2/3 | 15" wind | ext. Spire Flute            |
| 25 | 220 | Flute Fifteenth        | 2     |     | 15" wind | ext. Clarabella             |
| 26 | 214 | Spire Flute            | 2     |     | 15" wind | ext. Spire Flute            |
| 27 | 218 | Spitz Seventeenth      | 1     | 3/5 | 15" wind | ext. Spitz Flute Celeste II |
| 28 | 214 | Spire Flute            | 1     | 1/3 | 15" wind | ext. Spire Flute            |
| 29 | 214 | Spire Flute            | 1     |     | 15" wind | ext. Spire Flute            |
| 30 | 225 | Mixture Aetheria       | 15–29 | VI  | 15" wind | straight 366 pipes          |
| 31 | 231 | Tuba d'Amour           | 16    |     | 25" wind | ext. Tuba d'Amour           |
| 32 | 226 | Contra Bassoon         | 16    |     | 15" wind | ext. Bassoon                |
| 33 | 226 | Chalumeau              | 16    |     | 15" wind | ext. Clarinet               |
| 34 | 230 | Vox Humana             | 16    |     | 15" wind | ext. Vox Humana II          |
| 35 | 231 | Tuba d'Amour           | 8     |     | 25" wind | extended 85 pipes           |
| 36 | 228 | Trumpet Minor          | 8     |     | 15" wind | straight 61 pipes           |
| 37 | 229 | Cor d'Amour            | 8     |     | 15" wind | straight 61 pipes           |
| 38 | 226 | Bassoon                | 8     |     | 15" wind | extended 85 pipes           |
| 39 | 226 | Clarinet               | 8     |     | 15" wind | extended 85 pipes           |
| 40 | 303 | Vox Humana I           | 8     |     | 15" wind | straight 61 pipes           |
| 41 | 230 | Vox Humana II          | 8     |     | 15" wind | extended 85 pipes           |
| 42 | 231 | Tuba d'Amour           | 4     |     | 25" wind | ext. Tuba d'Amour           |

|    |     |                     |    |          |                    |
|----|-----|---------------------|----|----------|--------------------|
| 43 | 226 | Octave Bassoon      | 4  | 15" wind | ext. Bassoon       |
| 44 | 226 | Octave Clarinet     | 4  | 15" wind | ext. Clarinet      |
| 45 | 230 | Vox Humana          | 4  | 15" wind | ext. Vox Humana II |
| 46 | 232 | Chimes              | 8  |          |                    |
| 47 |     | Sub Octave          | 16 |          |                    |
| 48 |     | Octave              | 4  |          |                    |
| 49 |     | Choir to Echo       | 8  |          |                    |
| 50 |     | Great to Echo       | 8  |          |                    |
| 51 |     | Solo to Echo        | 8  |          |                    |
| 52 |     | Fanfare to Echo     | 8  |          |                    |
| 53 |     | Gallery I to Echo   |    |          |                    |
| 54 |     | Gallery II to Echo  |    |          |                    |
| 55 |     | Gallery III to Echo |    |          |                    |
| 56 |     | Gallery IV to Echo  |    |          |                    |
| 57 |     | String I to Echo    |    |          |                    |
| 58 |     | String II to Echo   |    |          |                    |
| 59 |     | String III to Echo  |    |          |                    |

#### BOMBARD – Manual 7

|   |  |                        |  |  |  |
|---|--|------------------------|--|--|--|
| 1 |  | Gallery I to Bombard   |  |  |  |
| 2 |  | Gallery II to Bombard  |  |  |  |
| 3 |  | Gallery III to Bombard |  |  |  |
| 4 |  | Gallery IV to Bombard  |  |  |  |

#### GALLERY I – Floating Totals: 4 voices / 10 ranks / 754 pipes

|    |     |                   |          |           |                                |
|----|-----|-------------------|----------|-----------|--------------------------------|
| 1  | 233 | Contra Diaphone   | 16       | 25" wind  | extended 85 pipes              |
| 2  | 233 | Diaphone          | 8        | 25" wind  | ext. Contra Diaphone           |
| 3  | 318 | Diapason          | 8        | 25" wind  | 8' rank from Mixture Mirabilis |
| 4  | 318 | Octave            | 8        | 25" wind  | 4' rank from Mixture Mirabilis |
| 5  | 318 | Mixture Mirabilis | 1–22 VII | 25" wind  | straight 511 pipes             |
| 6  | 235 | Trumpet Mirabilis | 16       | 100" wind | extended 85 pipes              |
| 7  | 235 | Trumpet Melody    | 16       | 100" wind | from Trumpet Mirabilis         |
| 8  | 234 | Tuba Maxima       | 8        | 100" wind | extended 73 pipes              |
| 9  | 235 | Trumpet Imperial  | 8        | 100" wind | ext. Trumpet Mirabilis         |
| 10 | 234 | Clarion Mirabilis | 4        | 100" wind | ext. Tuba Maxima               |
| 11 | 234 | Clarion Melody    | 4        | 100" wind | ext. Tuba Maxima               |
| 12 | 235 | Clarion Real      | 4        | 100" wind | ext. Trumpet Mirabilis         |

#### GALLERY II – Floating Totals: 7 voices / 9 ranks / 621 pipes

|   |     |                  |       |          |                      |
|---|-----|------------------|-------|----------|----------------------|
| 1 | 242 | Flauto Maggiore  | 16    | 25" wind | extended 97 pipes    |
| 2 | 243 | Jubal Flute      | 8     | 25" wind | straight 73 pipes    |
| 3 | 243 | Flute Melody     | 4     | 25" wind | from Jubal Flute     |
| 4 | 244 | Harmonic Flute   | 8     | 25" wind | straight 73 pipes    |
| 5 | 244 | Harmonic Flute   | 4     | 25" wind | straight 73 pipes    |
| 6 | 242 | Flute Melodic    | 4     | 25" wind | ext. Flauto Maggiore |
| 7 | 246 | Harmonic Twelfth | 2 2/3 | 25" wind | straight 61 pipes    |

|    |     |                  |           |          |          |           |
|----|-----|------------------|-----------|----------|----------|-----------|
| 8  | 247 | Harmonic Piccolo | 2         | 25" wind | straight | 61 pipes  |
| 9  | 248 | Harmonic Mixture | 17–22 III | 25" wind | straight | 183 pipes |
| 10 |     | Sub Octave       | 16        |          |          |           |
| 11 |     | Octave           | 4         |          |          |           |

GALLERY III – Floating Totals: 6 voices / 9 ranks / 681 pipes

|    |     |                 |    |  |                      |           |
|----|-----|-----------------|----|--|----------------------|-----------|
| 1  | 236 | Contra Diapason | 16 | 20" wind                                 | extended             | 97 pipes  |
| 2  | 237 | Diapason I      | 8  | 20" wind                                 | straight             | 73 pipes  |
| 3  | 238 | Diapason II     | 8  | 20" wind                                 | straight             | 73 pipes  |
| 4  | 239 | Octave I        | 4  | 20" wind                                 | straight             | 73 pipes  |
| 5  | 236 | Octave II       | 4  | 20" wind                                 | ext. Contra Diapason |           |
| 6  | 240 | Fifteenth       | 2  | 20" wind                                 | straight             | 73 pipes  |
| 7  | 241 | Mixture 12–22   | IV | 20" wind                                 | straight             | 292 pipes |
| 8  | A   | Grand Piano     | 16 | from Grand Piano, in Left Center Chamber |                      |           |
| 9  | A   | Grand Piano     | 8  | from Grand Piano, in Left Center Chamber |                      |           |
| 10 | A   | Grand Piano     | 4  | from Grand Piano, in Left Center Chamber |                      |           |

GALLERY IV – Floating Totals: 8 voices / 8 ranks / 596 pipes

|    |     |                   |    |          |                |          |
|----|-----|-------------------|----|----------|----------------|----------|
| 1  | 249 | Contra Saxophone  | 16 | 25" wind | ext. Saxophone |          |
| 2  | 300 | Brass Trumpet     | 8  | 25" wind | straight       | 73 pipes |
| 3  | 302 | Egyptian Horn     | 8  | 25" wind | straight       | 73 pipes |
| 4  | 301 | Euphone           | 8  | 25" wind | straight       | 73 pipes |
| 5  | 253 | Major Clarinet    | 8  | 25" wind | straight       | 73 pipes |
| 6  | 250 | Major Oboe        | 8  | 25" wind | straight       | 73 pipes |
| 7  | 251 | Musette Mirabilis | 8  | 25" wind | straight       | 73 pipes |
| 8  | 252 | Cor d'Orchestre   | 8  | 25" wind | straight       | 73 pipes |
| 9  | 249 | Saxophone         | 8  | 25" wind | extended       | 85 pipes |
| 10 | 249 | Octave Saxophone  | 4  | 25" wind | ext. Saxophone |          |
| 11 |     | Sub Octave        | 16 |          |                |          |
| 12 |     | Octave            | 4  |          |                |          |

BRASS CHORUS – Floating Totals: 8 voices / 10 ranks / 730 pipes

|   |     |                |           |          |          |           |
|---|-----|----------------|-----------|----------|----------|-----------|
| 1 | 110 | Trombone       | 16        | 25" wind | straight | 73 pipes  |
| 2 | 111 | Trombone I     | 8         | 25" wind | straight | 73 pipes  |
| 3 | 112 | Trombone II    | 8         | 25" wind | straight | 73 pipes  |
| 4 | 113 | Tromba Quint   | 5 1/3     | 20" wind | straight | 73 pipes  |
| 5 | 114 | Trombone       | 4         | 25" wind | straight | 73 pipes  |
| 6 | 115 | Tromba Twelfth | 2 2/3     | 20" wind | straight | 73 pipes  |
| 7 | 116 | Trombone       | 2         | 25" wind | straight | 73 pipes  |
| 8 | 117 | Tierce Mixture | 10–22 III | 20" wind | straight | 183 pipes |

Swell Box 13 STRING I – Floating Totals: 11 voices / 20 ranks / 1,436 pipes

|   |     |                             |    |          |          |           |
|---|-----|-----------------------------|----|----------|----------|-----------|
| 1 | 254 | Contra Basso                | 16 | 25" wind | extended | 97 pipes  |
| 2 | 255 | Cello                       | 8  | 25" wind | straight | 73 pipes  |
| 3 | 256 | Cello Celestes I (2 ranks)  | 8  | 25" wind | straight | 146 pipes |
| 4 | 257 | Cello Celestes II (2 ranks) | 8  | 25" wind | straight | 134 pipes |



|    |     |                              |    |          |                   |           |
|----|-----|------------------------------|----|----------|-------------------|-----------|
| 5  | 258 | Violins I (2 ranks)          | 8  | 25" wind | straight          | 146 pipes |
| 6  | 259 | Violins II (2 ranks)         | 8  | 25" wind | straight          | 134 pipes |
| 7  | 260 | Violins III (2 ranks)        | 8  | 25" wind | straight          | 146 pipes |
| 8  | 261 | Violins IV (2 ranks)         | 8  | 25" wind | straight          | 134 pipes |
| 9  | 262 | Violins Secundo I (2 ranks)  | 8  | 25" wind | straight          | 146 pipes |
| 10 | 263 | Violins Secundo II (2 ranks) | 8  | 25" wind | straight          | 134 pipes |
| 11 | 254 | Octave Viola                 | 4  | 25" wind | ext. Contra Basso |           |
| 12 | 264 | Violins Secundo (2 ranks)    | 4  | 25" wind | straight          | 146 pipes |
| 13 |     | Sub Octave                   | 16 |          |                   |           |
| 14 |     | Octave                       | 4  |          |                   |           |
| 15 |     | Melody                       | 16 |          |                   |           |
| 16 |     | Melody                       | 4  |          |                   |           |
| 17 |     | Pizzicato                    |    |          |                   |           |
| 18 |     | Separation                   |    |          |                   |           |

STRING II – Floating Totals: 24 voices / 37 ranks / 2,658 pipes

|    |     |                             |       |          |                    |           |
|----|-----|-----------------------------|-------|----------|--------------------|-----------|
| 1  | 265 | Double Bass                 | 16    | 15" wind | extended           | 97 pipes  |
| 2  | 266 | Contra Bass                 | 16    | 15" wind | extended           | 97 pipes  |
| 3  | 267 | Contra Viol                 | 16    | 15" wind | extended           | 97 pipes  |
| 4  | 268 | Viola Diapason              | 8     | 15" wind | straight           | 73 pipes  |
| 5  | 269 | Violincello                 | 8     | 15" wind | straight           | 73 pipes  |
| 6  | 270 | Cello Phonon                | 8     | 15" wind | straight           | 73 pipes  |
| 7  | 271 | Cello                       | 8     | 15" wind | straight           | 73 pipes  |
| 8  | 272 | Cello Celestes (2 ranks)    | 8     | 15" wind | straight           | 146 pipes |
| 9  | 273 | Viola Phonon                | 8     | 15" wind | straight           | 73 pipes  |
| 10 | 274 | Viola Celestes (2 ranks)    | 8     | 15" wind | straight           | 134 pipes |
| 11 | 275 | Violin Phonon               | 8     | 15" wind | straight           | 73 pipes  |
| 12 | 276 | Viol                        | 8     | 15" wind | straight           | 73 pipes  |
| 13 | 277 | Viol Celestes I (2 ranks)   | 8     | 15" wind | straight           | 146 pipes |
| 14 | 278 | Viol Celestes II (2 ranks)  | 8     | 15" wind | straight           | 134 pipes |
| 15 | 279 | Viol Celestes III (2 ranks) | 8     | 15" wind | straight           | 134 pipes |
| 16 | 280 | Viol Celestes IV (2 ranks)  | 8     | 15" wind | straight           | 134 pipes |
| 17 | 281 | Viol Celestes V (2 ranks)   | 8     | 15" wind | straight           | 134 pipes |
| 18 | 287 | Flute Quint                 | 5 1/3 | 15" wind | ext. Stopped Flute |           |
| 19 | 284 | Viol Principal              | 4     | 15" wind | straight           | 73 pipes  |
| 20 | 265 | Octave Cello I              | 4     | 15" wind | ext. Double Bass   |           |
| 21 | 266 | Octave Cello II             | 4     | 15" wind | ext. Contra Bass   |           |
| 22 | 267 | Octave Violin               | 4     | 15" wind | ext. Contra Viol   |           |
| 23 | 282 | Violins (2 ranks)           | 4     | 15" wind | straight           | 146 pipes |
| 24 | 283 | Violas (2 ranks)            | 4     | 15" wind | straight           | 146 pipes |
| 25 | 287 | Stopped Flute               | 4     | 15" wind | extended           | 78 pipes  |
| 26 | 288 | Flute Twelfth               | 2 2/3 | 15" wind | straight           | 73 pipes  |
| 27 | 287 | Piccolo                     | 2     | 15" wind | ext. Stopped Flute |           |
| 28 | 285 | String Mixture 10–22        | V     | 15" wind | straight           | 305 pipes |
| 29 | 286 | Tromba d'Amour              | 8     | 15" wind | straight           | 73 pipes  |
| 30 |     | Sub Octave                  | 16    |          |                    |           |

- 31 Octave 4
- 32 Melody 16
- 33 Melody 4
- 34 Pizzicato
- 35 Separation

STRING III – Floating Totals: 9 voices / 17 ranks / 1,217 pipes

- 1 289 Cello Celestes I (2 ranks) 8 15" wind straight 146 pipes
- 2 290 Cello Celestes II (2 ranks) 8 15" wind straight 146 pipes
- 3 291 Viola Celestes (2 ranks) 8 15" wind straight 146 pipes
- 4 292 Violins I (2 ranks) 8 15" wind straight 146 pipes
- 5 293 Violins II (2 ranks) 8 15" wind straight 134 pipes
- 6 294 Violins III (2 ranks) 8 15" wind straight 146 pipes
- 7 295 Violins IV (2 ranks) 8 15" wind straight 134 pipes
- 8 296 Violins Secundo (2 ranks) 8 15" wind straight 146 pipes
- 9 297 Cor Anglais 8 15" wind straight 73 pipes
- 10 Sub Octave 16
- 11 Octave 4
- 12 A Grand Piano 16 from Grand Piano, in Left Center Chamber
- 13 A Grand Piano 8 from Grand Piano, in Left Center Chamber
- 14 A Grand Piano 4 from Grand Piano, in Left Center Chamber

TREMULANTS

- 1 Master Tremolo

TREMOLOS RIGHT

- 2 Great Tibia
- 3 Great-Solo Flues
- 4 Great-Solo Reeds
- 5 Solo Low Pressure (20")
- 6 Echo
- 7 String II

TREMOLOS LEFT

- 8 Unenclosed Choir
- 9 Choir
- 10 Choir Philomela
- 11 Swell
- 12 Swell-Choir
- 13 Swell-Choir Vox Humana
- 14 Fanfare
- 15 Fanfare Pileata Magna
- 16 Gallery IV
- 17 String I
- 18 String III