

# M. P. MÖLLER Organ Factory

4/64

Pipe Organ No.	R-712	Date	May 7, 1963 Revised August 27, 1963
For	St. Paul's Lutheran Church Allentown, Pennsylvania		
Action	Electro-Pneumatic	Console	Present - reworked - no roll top
Casing No	No Change	Finish	To customer's selection
Decorations	No Change	Motor	Present motor & blower. New DC organ power unit.
Width of Key-bed	Standard	Stop Controls	Draw Knobs & Tilting Tablets.
No. Manuals	Four and Pedal	Wind Pressure	Gr. 3-3/4", Sw. Ch. & So. 5"; Ped. 5" & 8"
To be Completed	Soon As Possible	Blower Pipe furnished by	Purchaser

## SPECIFICATIONS

### FOR

REBUILDING WITH TONAL CHANGES OF GREAT, SWELL, CHOIR AND PEDAL DIVISIONS OF EXISTING MOLLER ORGAN OPUS 5789 - 1930

### CONSOLE

Rebuild existing four manual console as follows:

- Install new manual keys.
- Install new draw knobs.
- Install new coupler tablets.
- Install new silver contacts on all present stop controls and coupler controls.
- Install new primary action for couplers and reversibles as required.
- Clean coupler contacts and wiper bars.
- Refelt coupler action.
- Delete Pistons No. 1-2-3-4-5-6-7-8-0 Affecting Pedal Organ.
- Delete Harp Damper Pistons and light.
- Delete Chime Damper Pistons and light.
- Install new piston buttons.
- Disconnect second touch from combination pistons.
- Install new cancel tabs above stop groups.
- Dismantle, clean, refelt, rework as required and re-assemble existing combination action.
- Install new reversible toe studs.
- Install 10 new reversible mechanisms.
- Install new relays as required.
- Releather 6 combination primaries.
- Recover 6 combination pneumatics.
- Recover 41 coupler pneumatics.
- Install new Sforzando Reversible switch.
- Install new All Swells to Swell Reversible switch.
- Delete Great Organ expression pedal and switch.
- Install new silver wire roller switches for three existing Expression pedals.
- Install new silver wire roller switch for existing Crescendo pedal.
- Install new rubber pads and aluminum binding on all pedal shoes.
- Refelt console completely.
- Install new caps on naturals and sharps of existing pedal keyboard.
- Refelt pedal keyboard completely and install new rubber tubing on wiper wires.
- Install new console knee panel.
- Refinish console cabinet, pedal keyboard and organ bench.



## MANUAL CHESTS

Releather 2266 Manual pipe pouches.  
 Install 4138 new stop action checks and eyelets.  
 Install 438 new duplex shifters.  
 Releather 48 stop action primaries.  
 Releather four 73 note primary stations.  
 Releather two 61 note primary stations.  
 Install 462 new magnet plugs and armatures.

## OFFSET ACTIONS

Install new action for Great 16 Quintaten #1 to #24 incl.  
 Install new action for Great 8 Bordun #1 to #4 incl.  
 Install new action for Choir 4 Rohr Schalmel #1 to #61 incl.  
 Releather Great 8 Prinzipal action #1 to #12 incl.  
 Releather Great IV Mixture action #1 to #61 incl.  
 Releather Swell 16 Lieblich Bourdon action #1 to #12 incl.  
 Releather Swell 8 Gedeckt action #1 to #12 incl.  
 Releather Swell 16 Basson action #1 to #24 incl.  
 Releather Swell 8 Trompette action #1 to #12 incl.  
 Releather Choir 16 Viole action #1 to #12 incl.  
 Releather Choir II Sesquialtera action #1 to #12 incl.  
 Install 157 new magnet plugs and armatures.

## CONTACT BOXES

Releather one 61 note Great Contact Box and install new silver wire contact blocks.  
 Install one new 73 note Contact Box for Swell Organ.  
 Releather one 73 note Choir Contact Box and install new silver wire contact blocks.

## SWITCHES

Install the following new electro-pneumatic switches with stop actions:

Great	16	Quintaten	44 Notes
Great	8	Prinzipal	12 Notes
Great	4	Bordun	4 Notes
Great	IV	Mixture	44 Notes
Great	8	Harp TC	61 Notes
Great	4	Harp Celeste	61 Notes
Great		Chimes	25 Notes
Great		Unison	61 Notes
Swell	16	Lieblich Bourdon	56 Notes
Swell	8	Gedeckt	12 Notes
Swell	16	Basson	44 Notes
Swell		Unison I	73 Notes
Swell		Unison II	73 Notes
Choir	16	Viole	12 Notes
Choir	II	Sesquialtera	12 Notes
Choir	4	Rohr Schalmel	61 Notes
Choir	8	Harp TC	61 Notes
Choir		Unison	73 Notes
Choir		Antiphonal	73 Notes

## CHIMES

Releather and refelt present 25 note action and install new magnet plugs and armatures.  
 Recover 25 pneumatics.  
 Move present chimes from Echo Organ chamber to Swell Organ chamber, playable on Great and Solo Manuals.

## HARP

Releather and refelt present 61 note action and install new magnet plugs and armatures.  
 Recover 61 pneumatics.  
 Make any additional repairs required.



## PEDAL ORGAN

Install new action for 16 Principal #1 to #56 incl.  
 Releather and rework present 16 Bourdon action #1 to #51 incl.  
 and install new magnet plugs and armatures.  
 Install new action for 16 Bourdon #52 to #63 incl.  
 Install new action for III Mixture #1 to #32 incl.  
 Install new action for 32 Contra Trombone (half length) #1 to #12 incl.  
 Releather present 16 Trombone action #1 to #56 incl. and install  
 new magnet plugs and armatures.  
 Install new 20 note primary station for Great 16 Quintaten.  
 Install new 56 note primary station for Swell 16 Lieblich Gedeckt.  
 Install new 44 note primary station for Choir 16 Viole.  
 Install new 44 note Pedal Relay with twenty 44 note switches.

## EXPRESSION

Releather Great expression action, install new magnet plugs and  
 armatures and re-install as part of Swell expression action.  
 Releather Swell expression action and install new magnet plugs  
 and armatures.  
 Releather Choir expression action and install new magnet plugs  
 and armatures.  
 Recover shade and bumper pneumatics.  
 Install new shade jacks and connecting rods.  
 Install approx. 160 sq. ft. swell shades and action as required.  
 Install approx. 105 sq. ft. swell box as required.

## RESERVOIRS

Releather the following reservoirs:

One (1) Blower reservoir  
 Three (3) 4'-0" x 6'-0" Manual reservoirs  
 Two (2) 3'-0" x 5'-0" Manual reservoirs  
 One (1) 1'-6" x 3'-0" Pedal reservoir  
 Six (6) 1'-6" x 2'-0" Pedal reservoirs  
 Three (3) 16" x 21" Cone Valve reservoirs  
 Three (3) 14" x 16" Cone Valve reservoirs  
 Four (4) Pneumatic reservoirs  
 Three (3) Concussion pneumatics

Install one (1) new reservoir for Pedal Mixture.

## TREMOLOS

Install three (3) new electro-pneumatic tremolos.

## PIPES

Install the following new pipes: 36

Great 16 Quintaten - 61 pipes on present 16 Diapason action.  
 Great 8 Prinzipal - 61 pipes on present 8 Major Diapason action.  
 Great 8 Bordun - 61 pipes on present 8 Minor Diapason action.  
 Great 4 Octave - 61 pipes on present action.  
 Great 4 Spitzflöte - 61 pipes on present 4 Flute Harmonic action.  
 Great 2 Flötenprinzipal - 61 pipes on present 8 Doppel Flute action.  
 Great IV Mixture - 244 pipes on present 8 Tromba action.  
 Great III Cymbel - 183 pipes on present III Mixture action.  
 Swell 8 Viole - present pipes #1 to #19, new pipes #20 to #73 -  
 73 pipes on present 8 Salicional action.  
 Swell 4 Geigen Principal - 73 pipes on present 4 Principal action.  
 Swell 2-2/3 Rohrnazard - 61 pipes on present 8 Vox Celeste action.  
 Swell 2 Zauberflöte - 61 pipes on present 2 Piccolo action.  
 Swell III Scharf - 183 pipes on present III Mixture action.  
 Swell 16 Basson - 73 pipes on present 16 Double Trumpet action.  
 Swell 8 Trompette - 73 pipes on present 8 French Trumpet action.



## PIPES (cont'd)

Swell 4 Clairon - 73 pipes on present action.  
 Choir 8 Holzgedeckt - new pipes #1-#12, present 4 Flute  
 D'Amour pipes #13-#73 - 73 pipes on present 8 Concert Flute action.  
 Choir 4 Koppelflöte - 73 pipes on present 8 Quintadena action.  
 Choir 4 Fugara - 73 pipes on present 8 English Horn action.  
 Choir 2 Oktavin - 61 pipes on present 4 Flute D'Amour action.  
 Choir 1-1/3 Larigot - 61 pipes on present 8 Viole action.  
 Choir 1 Sifflöte - 61 pipes on present 8 Viole Celeste action.  
 Choir II Sesquialtera - 122 pipes on present 8 Diapason action.  
 Choir 8 Krummhorn - 73 pipes on present 8 Clarinet action.  
 Choir 4 RohrSchalmei - 61 pipes.  
 Pedal 16 Principal - #45 to #56 incl - 12 pipes.  
 Pedal 16 Bourdon - #51 to #63 incl - 12 pipes.  
 Pedal III Mixture - 96 pipes.  
 Pedal 32 Contra Trombone (half length) #1 to #12 incl - 12 pipes

## Revoice the following pipes:

Swell 8 Gedeckt - 73 pipes (present 8 Stopped Diapason pipes)  
 Swell 8 Viole Celeste - 73 pipes (present 8 Aeoline pipes)  
 Swell 8 Hautbois - 73 pipes (present 8 Oboe pipes)  
 Swell 8 Voix Humaine - 73 pipes (present Echo 8 Vox Humana pipes)  
~~Solo Echo 8 English Horn - 73 pipes (present Choir 8 English Horn pipes)~~  
 Pedal 16 Bourdon - (#1-24 present Pedal 16 Bourdon; #25 to #51 present  
 Choir 8 Concert Flute pipes)  
 Pedal 16 Trombone - 56 pipes (present Swell 16 Double Trumpet pipes)  
~~Solo 8 Trumpet - 61 pipes (present Great 8 Tromba pipes)~~  
 Install modern tuning slides on all present metal pipes.

## CABLES

Install new plastic covered cables between console and organ.

## BLOWER

Present motor and blower to be used without change.  
 Install six new leather couplings.  
 Install new 1 1/4" diam. flexible rubber connection.

## ACTION CURRENT

Install new 10-15 volt, 75 ampere DC organ power unit.

## GENERAL

Entire organ with exception of organ case, display pipes, Solo Organ division, Echo Organ division, motor and blower to be returned to factory of M. P. Moller, Inc. at Hagerstown, Md. for rebuilding as specified above.

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SPECIFICATIONS  
 FOR  
 CONSOLE AND ORGAN

MANUAL COMPASS  
 PEDAL COMPASS  
 WIND PRESSURE  
 PITCH

CC to C4, 61 Notes  
 CCC to G, 32 Notes  
 Gt. 3-3/4", Sw., Ch., & So. 5", Ped. 5" & 8"  
 A-440 @ 70° F



GREAT ORGAN (Unenclosed) 14

1	16	Quintaten.....	new pipes; new action #1 to #24, present 16 Diapason action #25 to #61.....	61 Pipes
2	8	Prinzipal.....	new pipes; present 8 Major Diapason action...	61 Pipes
3	8	Bordun.....	new pipes; new action #1 to #4, present 8 Minor Diapason action #5 to #61.....	61 Pipes
4	8	Gemshorn.....	present pipes; present action.....	61 Pipes
5	4	Octave.....	new pipes; present action.....	61 Pipes
6	4	Spitzflöte.....	new pipes; present 4 Flute Harmonic action...	61 Pipes
7	2	Flötenprinzipal.....	new pipes; present 8 Doppel Flute action.....	61 Pipes
8	IV	Mixture.....	new pipes; present 8 Tromba action.....	24 Pipes
9	III	Cymbel.....	new pipes; present III Mixture action.....	183 Pipes
10	8	Harp T.C.....	from #43.....	49 61 Notes
11	4	Harp Celeste.....	from #43.....	61 Notes
12		Chimes.....	present tubes; present action (located in Swell Chamber).....	25 Tubes
13		<del>Blank</del> <i>Zimbelstern</i>		

SWELL ORGAN 16

14	16	Lieblich Bourdon.....	present pipes; present action.....	73 Pipes
15	8	Gedeckt.....	present 8 Stopped Diapason pipes; present 8 Stopped Diapason action.....	73 Pipes
16	8	Viole.....	present pipes #1 to #19, new pipes #20 to #73; present 8 Salicional action.....	73 Pipes
17	8	Viole Celeste.....	present 8 Aeoline pipes; present 8 Aeoline action.....	73 Pipes
18	8	Flauto Dolce.....	present pipes; present action.....	73 Pipes
19	8	Flauto Celeste.....	present pipes; present action.....	73 Pipes
20	4	Geigen Principal.....	new pipes; present 4 Principal action.....	73 Pipes
21	4	Harmonic Flute.....	present pipes; present action.....	73 Pipes
22	2-2/3	Rohrnazard.....	new pipes; present 8 Vox Celeste action.....	61 Pipes
23	2	Zauberflöte.....	new pipes; present 2 Piccolo action.....	61 Pipes
24	III	Scharf.....	new pipes; present III Mixture action.....	183 Pipes
25	16	Basson.....	new pipes; present 16 Double Trumpet action...	73 Pipes
26	8	Trompette.....	new pipes; present 8 French Trumpet action...	73 Pipes
27	8	Hautbois.....	present 8 Oboe pipes; present 8 Oboe action...	73 Pipes
28	8	Voix Humaine.....	present Echo 8 Vox Humana pipes; present Swell 8 Diapason action.....	73 Pipes
29	4	Clairon.....	new pipes; present action.....	73 Pipes
30		Tremolo		

CHOIR ORGAN 13

31	16	Viole.....	present 16 Contra Viole pipes; present 16 Contra Viole action.....	73 Pipes
32	8	Holzgedeckt.....	new pipes #1 to #12; #13 to #73 present 4 Flute D'Amour pipes; present 8 Concert Flute action.....	73 Pipes
33	8	Dulciana.....	present pipes; present action.....	73 Pipes
34	8	<del>Unda Maris</del> .....	present pipes; present action.....	73 Pipes
35	4	Koppelflöte.....	new pipes; present 8 Quintadena action.....	73 Pipes
36	4	Fugara.....	new pipes; present 8 English Horn action.....	73 Pipes
37	2	Oktavin.....	new pipes; present 4 Flute D'Amour action...	61 Pipes
38	1-1/3	Larigot.....	new pipes; present 8 Viole action.....	61 Pipes
39	1	Sifflöte.....	new pipes; present 8 Viole Celeste action...	61 Pipes
40	II	Sesquialtera.....	new pipes; present 8 Diapason action.....	122 Pipes



CHOIR ORGAN (cont'd)

41	8	Krummhorn.....new pipes; present 8 Clarinet action.....73 Pipes
42	4	Rohr Schalmel.....new pipes; new action.....73 Pipes
43	8	Harp T. C.....present Deagan bars; present action.....61 Bars
44		Tremolo

SOLO ORGAN (61 note station) 6

45	8	Gross Gamba
46	8	Gross Gamba Celeste
47	4	Flute
48	8	Trumpet - <i>present Great 8 Tromba pipes; present Solo 8 Tuba Mirabilis action - 61 pipes</i>
49	8	French Horn
50	8	Orchestral Oboe
51		Tremolo
52		Chimes.....from #12.....25 Notes

SOLO - ANTIPHONAL ORGAN (\*) (73 note station) 7  
(to be used without change, except as noted)

53	8	Flute
54	8	Viole
55	8	Viole Celeste
56	4	Principal
57	2	Piccolo
58	4	Flute
59	8	English Horn.....present Choir 8 English Horn pipes; present Echo 8 Vox Humana action.....73 Pipes
60		Tremolo
61		Blank

(\*) Solo-Antiphonal Organ to be affected by couplers and combinations of Solo and Choir Organs.

CHOIR ANTIPHONAL ORGAN

62	8	Flute.....from #53.....73 Notes
63	8	Viole.....from #54.....73 Notes
64	8	Viole Celeste.....from #55.....73 Notes
65	4	Principal.....from #56.....73 Notes
66	2	Piccolo.....from #57.....73 Notes
67	4	Flute.....from #58.....73 Notes
68	8	English Horn.....from #59.....73 Notes
69		Tremolo
70		<del>Zimbelstern</del> Blank



PEDAL ORGAN (\*) 6

71	32	Resultant.....	from #72 and #73.....	44 Notes
72	16	Principal.....	present Great 16 Diapason pipes; #1 to #44, new pipes #45 to #56; new action..	56 Pipes
73	16	Bourdon.....	present 16 Bourdon pipes #1 to #24, present Choir 8 Concert Flute pipes #25 to #51, new pipes #52 to #56; present action #1 to #51, new action #52 - #56.....	56 Pipes
74	16	Quintaten.....	from #1 .....	44 Notes
75	16	Leiblich Gedeckt.....	from #11.....	44 Notes
76	16	Viole.....	from #31.....	44 Notes
77	10-2/3	Quinte.....	from #73.....	44 Notes
78	8	Principal.....	from #72.....	32 Notes
79	8	Bourdon.....	from #73.....	32 Notes
80	8	Flauto Dolce.....	from # <del>72</del> 16.....	44 Notes
81	8	Dulciana.....	from #33.....	44 Notes
82	5-1/3	Octave Quinte .....	from #73.....	32 Notes
83	4	Principal.....	from #72.....	32 Notes
84	4	Bourdon.....	from #73.....	32 Notes
85	III	Mixture.....	new pipes; new action.....	96 Pipes
86	32	Contra Posaune.....	#1 to #12 new pipes; new action; <sup>half length</sup> #13 to #68 present Swell 16 Double Trumpet pipes, present Pedal 16 Trombone action.....	68 Pipes
87	16	Posaune.....	from #86.....	44 Notes
88	16	Basson.....	from #25.....	44 Notes
89	8	Trumpet.....	from #86.....	44 Notes
90	4	Clairon.....	from #86.....	32 Notes

(\*) Pedal Organ playable thru new relay and switches to be supplied by M.P.M., Inc.

COUPLERS (present - no change)

91	Great to Pedal	112	Choir to Swell 16
92	Great to Pedal 4	113	Choir to Swell
93	Swell to Pedal	114	Choir to Swell 4
94	Swell to Pedal 4	115	Solo to Swell 16
95	Choir to Pedal	116	Solo to Swell
96	Choir to Pedal 4	117	Solo to Swell 4
97	Solo to Pedal	118	Swell 16
98	Solo to Pedal 4	119	Swell Unison Separation
99	Pedal Octave	120	Swell 4
100	Swell to Great 16	121	Swell to Choir 16
✓ 101	Swell to Great	122	Swell to Choir
102	Swell to Great 4	123	Swell to Choir 4
103	Choir to Great 16	124	Solo to Choir 16
✓ 104	Choir to Great	125	Solo to Choir
105	Choir to Great 4	126	Solo to Choir 4
106	Solo to Great 16	127	Choir 16
✓ 107	Solo to Great	128	Choir Unison Separation
108	Solo to Great 4	129	Choir 4
109	Great 16	130	Solo 16
110	Great Unison Separation	131	Solo Unison Separation
111	Great 4	132	Solo 4

(\*) Couplers duplicated by manual pistons



ADJUSTABLE COMBINATIONS

Pistons No. 1-2-3-4-5-6-7-8-0	Affecting Great Organ
Pistons No. 1-2-3-4-5-6-7-8-0	Affecting Swell Organ
Pistons No. 1-2-3-4-5-6-7-8-0	Affecting Choir Organ
Pistons No. 1-2-3-4-5-6-7-8-0	Affecting Solo Organ
Toe Studs No. 1-2-3-4-5-6-7-8	Affecting Pedal Organ
Pistons No. 1-2-3-4-5-6-7-8	Affecting Full Organ (duplicated by toe studs)
General Cancel Piston	
Cancel tabs above stop groups	

NOTE: Delete Pistons No. 1-2-3-4-5-6-7-8-0 Affecting Pedal Organ  
 Delete second touch from manual pistons.  
 Delete Harp Damper Pistons and light.  
 Delete Chime Dampers Pistons and light.

PEDAL MOVEMENTS

- 1- Great to Pedal Reversible.
- 2- Swell to Pedal Reversible.
- 3- Choir to Pedal Reversible.
- 4- Solo to Pedal Reversible.
- 5- Balanced Expression Pedal for Swell Organ (        contacts, regular system) with indicator light.
- 6- Balanced Expression Pedal for Choir Organ (        contacts, regular system) with indicator lights.
- 7- Balanced Expression Pedal for Solo Organ and Antiphonal Organ (14 contacts, regular system) with indicator lights.
- 8- Balanced Crescendo Pedal with indicator lights.
- 9- Sforzando Reversible (duplicated by manual piston) with indicator light.
- 10- All Swells to Swell Reversible (duplicated by manual piston) with indicator light.

NOTE: Delete existing Great Organ expression pedal.  
 Install new reversible toe studs.

ACCESSORIES

Solo - Both - Antiphonal Jamb switch mounted on Solo manual.  
 Choir - Both - Antiphonal Jamb switch mounted on Choir Manual.  
 Tremolos "On and Off" (Crescendo and Sforzando) reversible pistons with light indicator.  
 Sub and super coupler cancel reversible piston.  
 Present concave and radiating pedal keyboard.  
 Present organ bench.  
 Present motor and blower. New 75 ampere orgelectra organ power unit.  
 Indicator light (Narthex)  
 Indicator light.

*Pedal light*  
 6/15/63  
 RHM/bw  
 Rev. 8/27/63  
 HAM/bw