

St Brendan's Parish

Audio System



Warehouse Sound Systems Pty Ltd

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St Brendan's Parish

System Overview

Loudspeaker Layout

The sound system comprises 20 Martin EM15 loudspeakers located at selected intervals through the body of the church.

This layout is intended to provide, as far as is practicable, an even sound field which minimises concentrations of acoustic energy which would cause feedback.

Sound Pressure Level

The sound system will produce an even sound field up to 94db (+/-3db) at speech frequencies. This specification represents the peak response of the system, and is required to provide adequate "headroom" above average level.

Feedback

The practical limit to the performance of any microphone/loudspeaker system is the onset of feedback. This occurs when a microphone "hears" itself through the loudspeakers. Once the gain of the system has been set to the point where feedback occurs, *the only way to get more volume will be speak louder or move closer to the microphone.*

Equipment Rack

Adequate airflow is required around and above the equipment to provide cooling.

Musician's Area

Provided in the musicians area are eight floor-mounted microphone points and two line level points. From this location the organist will operate a compact disc or cassette player, and wireless microphone.

Entry Areas

A loudspeaker patch point has been provided in each of one side-entry porch (western) and one front-entry porch. Loudspeakers *fitted with a 100v transformer* may be patched to these loudspeaker points when required. These may be turned off or down by a wall-mount stepped volume control located beside each patch point.

Prayer Chapel

Two loudspeakers are provided to relay the sound from the main body of the church during large attendances. These may be turned off or down by a wall-mount stepped volume control located in the south west corner.

Glazed Area

Two loudspeakers are provided to relay the sound from the main body of the church. These may be turned off or down by a wall-mount stepped volume control located under the stairway on the western wall.

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Audio On/Off Procedure

TO TURN ON AUDIO

At Electrical Switchboard: Turn PA Master Isolation Switch ON

The mixer will reset itself to the settings at switch-off

TO TURN OFF AUDIO

At Electrical Switchboard: Turn PA Master Isolation Switch OFF

Do not switch off Mixer, Amplifiers or other equipment in audio rack

Audio Mixer Operation

A MIXER WITH MEMORY

The Yamaha 01v mixer is able to store a "snapshot" of all settings in each of 99 memory locations.

These settings may be recalled, stored and edited in the following steps:

TO RECALL SCENE MEMORY

Press [MEMORY]

Use the PARAMETER WHEEL to select Scene Memory 01-99

Select RECALL using the [CURSOR]

Press [ENTER]

The mixer will reset itself to previously stored settings

TO TEMPORARILY EDIT A SCENE MEMORY

Recall a selected scene as above

Adjust Fader, EQ & FX Controls to suit

DO NOT Press [STORE] or [RECALL]

TO EDIT & STORE AN EXISTING SCENE MEMORY

Recall a selected scene as above

Adjust Fader, EQ & FX Controls to suit

Press [MEMORY]

Select STORE using the [CURSOR]

Press [ENTER]

Previous settings will be overwritten with new settings

TO SAVE A NEW SCENE MEMORY

Recall a selected scene as above

Adjust Fader, EQ & FX Controls to suit

Press [MEMORY]

Use the PARAMETER WHEEL to select a new Scene Memory 01-99

Select STORE using the [CURSOR]

The TITLE EDIT display allows you to select an 8-letter name for easy identification

Use the PARAMETER WHEEL & [CURSOR] to select characters

Select OK using the [CURSOR]

Press [ENTER]

New settings will stored in selected scene memory

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Audio Equipment List

Equipment Rack

Qty	Brand	Model	Description	Notes
1	YAMAHA	Promix01V	16ch Mixing Desk	
2	YAMAHA	P4500	Amplifier	100v Bridge Mode

Loudspeaker System

Qty	Brand	Model	Description	Notes
20	Martin	EM15	2x5" Loudspeaker	Fitted with 100v Transformer
4	ATC	5137	Attenuator	
2	WSS	2JP	Twin 1/4" Phono Jack	Outdoor Speaker Points

Microphones & Leads

Qty	Brand	Model	Description	Notes
1	RFX	SDR816M	Wireless Microphone	Lapel Microphone
2	AKG	GN30	Gooseneck Microphone	CK80 Capsule
1	ASTATIC		Gooseneck Microphone	
1	Dick Smith		Boundary Microphone	
7	E-V		Musicians Microphones	
1	WSS	P-XLRF12	Floor Mount Stage Box	8 XLR Microphone, 2 RCA Line
4	WSS	AVIMWP331	Single xlr-f Wallplate	
3	XLR	5m	Mic Lead	