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The Martin Experience

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Martin Audio – C115 Loudspeaker



This equipment conforms to the requirements of the EMC Directive 89/336/EEC, amended by 92/31/EEC and 93/68/EEC and the requirements of the Low Voltage Directive 73/23/EEC, amended by 93/68/EEC.

Standards Applied	EMC Emission	EN55103-1:1996
	Immunity	EN55103-2:1996
	Electrical Safety	EN60065:1993

1 INTRODUCTION

Thank you for purchasing a Martin Audio C115 loudspeaker. This is a versatile surface-mount loudspeaker designed for high quality music and speech reproduction in distributed sound systems. It has been carefully styled to present a discrete, high quality appearance, which will blend unobtrusively into commercial and architectural environments.

The C115 is available in the following electrical configurations:

- 8 ohm
- 100V line (Europe and Japan)
- 70V line (USA)

Typical applications include retail outlets, bars, hotels and restaurants. Each C115 is supplied with a unique wall bracket which permits off-axis adjustment of 40 degrees horizontally and 35 degrees vertically. Additional hardware is available for corner mounting and for arrays of 2, 3 or 4 speakers to give the C115 exceptional mounting flexibility.

2 UNPACKING

The C115 is packed in pairs complete with wall brackets. Each Martin C115 is built to the highest standard and thoroughly tested before it leaves the factory. After unpacking the speakers and brackets, examine them carefully for any signs of transit damage and inform your dealer if any such damage is found.

Check that the electrical configuration supplied (8 ohm, 100V line or 70V line) is the one you require. It is suggested that you retain the original packaging so that the speakers can be repacked and returned if necessary.

Please note that Martin Audio and its distributors cannot accept responsibility for damage to any returned product through the use of non-approved packaging.

3 WALL-BRACKET INSTALLATION

The wall-bracket should be fixed to the wall prior to the installation of the C115. The bracket has four elongated fixing holes with the fixing positions shown by small arrowheads in the moulding. The bracket or fixing template should be held up against the wall in the position required and the four fixing positions marked on the wall (see template on the outside back cover). A qualified person such as a building professional or qualified engineer should determine the method of fixing and type of fixing screw based on an evaluation of the wall construction.

4 ROTATION FEATURE

The fixing holes in the wall-bracket are elongated to allow the bracket to be rotated 10 degrees clockwise or anti-clockwise before fully tightening the fixing screws. This rotation feature may be used to restore horizontal alignment if the C115 is to be used with a significant downward tilt.

5 NEAR-CORNER MOUNTING

The wall-bracket supplied can be used to mount the C115 close to a corner if required rather than using the optional dedicated corner mount. Typical distances of the centre of the bracket from the corner to allow for downward tilt angles of 0, 10, and 20 degrees are shown below. Each tooth on the egg shaped-moulding corresponds to a tilt angle of 10 degrees.

<u>Tilt</u>	<u>Tooth</u>	<u>Distance of centre of bracket from corner</u>
0°	0	57mm
10°	1	67mm
20°	2	82mm

6 ATTACHING THE SPEAKER TO THE BRACKET

Once the bracket has been fitted to the wall, the speaker can be installed. The speaker is fixed to the tongue of the wall-bracket by means of an M5 socket cap screw supplied with the bracket. The recess in the rear of the C115 should be placed over the tongue and the M5 screw inserted upwards through the hole in the base of the C115 between the connecting terminals into a threaded insert in the tongue. The speaker can be rotated horizontally on the tongue about the axis of the "base" screw which should then be fully tightened when the required horizontal angle has been determined.

The vertical tilt of the speaker is set by undoing the screw in the end of the egg-shaped moulding on the bracket that has teeth which allow different vertical tilt angles to be achieved. Once the desired vertical angle is reached, fully tighten the "egg" screw.

It is important that both the "egg" screw and "base" screw are fully tightened once the final position of the speaker has been set.

7 CONNECTING THE C115

The loudspeaker terminals will accept stripped wires up to 1.5mm² diameter. The wires should be stripped to approximately 8-10mm. It is important that all the C115's in a distributed system are wired in phase i.e. consistent polarity is maintained throughout. Each C115 is wired so that a positive voltage on the RED terminal causes forward motion of the speaker cone.

8 TRANSFORMER VERSIONS

The 70V and 100V versions of the C115 have an internally mounted tapped transformer and a switch, which selects the power delivered to the loudspeaker. The switch is located at the rear of the enclosure to the right of the wall bracket when viewed from the rear. The switch is adjusted by means of a small flat blade screwdriver as follows:

<u>Switch Position (view from rear)</u>	<u>Power</u>
Position 1 (fully anti-clockwise)	3.75W
Position 2	7.5W
Position 3	15W
Position 4 (fully clockwise)	30W

9 WARRANTY

Martin Audio C115 Loudspeaker is warranted against manufacturing defects in materials or craftsmanship over a period of 5 years from the date of original purchase. During the warranty period Martin Audio will, at its discretion, either repair or replace products which prove to be defective provided that the product is returned in its original packaging, shipping prepaid, to an authorised Martin Audio service agent or distributor.

Martin Audio Ltd. cannot be held responsible for defects caused by unauthorised modifications, improper use, negligence, exposure to inclement weather conditions, act of God or accident, or any use of this product that is not in accordance with the instructions provided by Martin Audio.

Martin Audio is not liable for consequential damages.

This warranty is exclusive and no other warranty is expressed or implied.

This warranty does not affect your statutory rights.

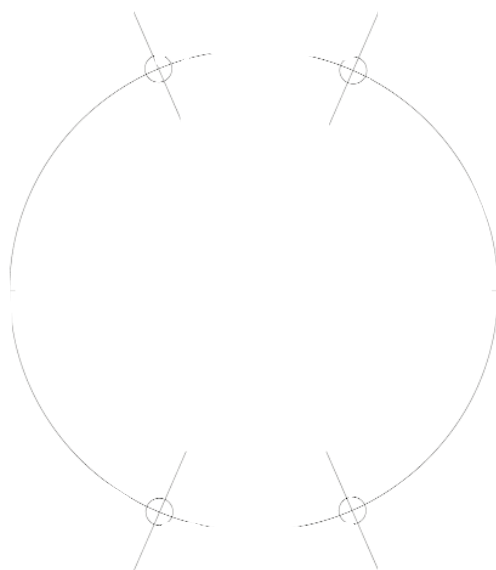
10 TECHNICAL SPECIFICATIONS

C115

TYPE	Ultra-compact, two-way ICT™
FREQUENCY RESPONSE	80Hz – 20kHz 120Hz – 20kHz ± 3dB
DRIVER	1 x 5" (120mm) full-range ICT™
RATED POWER	50W AES, 200W peak
RECOMMENDED AMPLIFIER	50-200W into 4 ohms
SENSITIVITY	88dB (1 watt @ 1 metre)
MAXIMUM SPL	105dB continuous, 111dB peak
IMPEDANCE	8 ohms
DISPERSION (-6dB)	90 degree conical
ENCLOSURE	Mineral loaded polypropylene
FINISH	Light grey or graphite
PROTECTIVE GRILLE	Perforated steel
CONNECTORS	Binding posts
OPTIONS	30w line transformer Shielded magnet
DIMENSIONS	(W) 194mm x (H) 217mm x (D) 135mm (W) 7.6ins x (H) 8.5ins x (D) 5.3ins
WEIGHT C115 WEIGHT C115T	1.7kg (3.7lbs) 2.5kg (5.5lbs)
SHIPPING DIMENSIONS	(W) 270mm x (H) 410mm x (D) 240mm (W) 10.6ins x (H) 16.1ins x (D) 9.4ins
SHIPPING WEIGHT C115 SHIPPING WEIGHT C115T	4.5kg (9.9lbs) 6kg (13.2lbs)

Due to our policy of continuous improvement all specifications are subject to change without notice.

11 FIXING TEMPLATE



Warning

If using this template check diameter = 67mm

C115 Loudspeaker



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C115 Loudspeaker

User's Guide



ENGLISH



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