

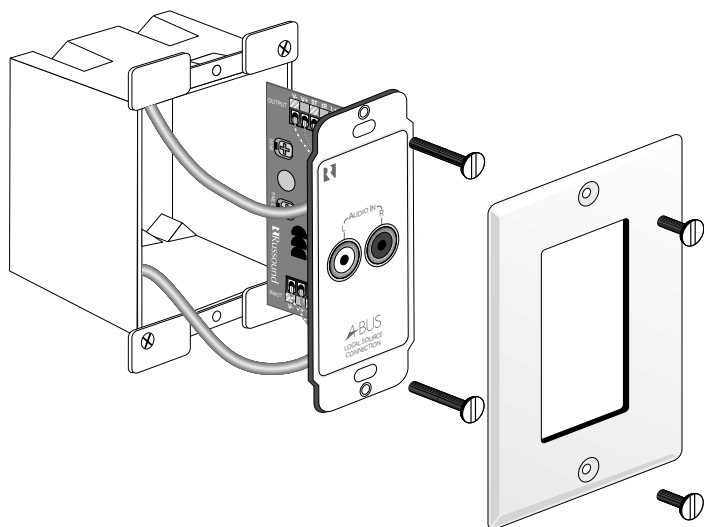
A-LC1

SERVICE MANUAL



SPECIFICATIONS

Power: 24VDC 24 mA
 Input Sensitivity: 35mV to 280mV
 Delay: 10 Seconds to 1 1/2 minutes
 Dimensions: 1.60"w x 2.7"h x 2.0"d
 41mm x 69mm x 51mm
 Fits 18 cubic inch UL approved J-Box



A-BUS Products



A-KP



A-CB4



A-VC



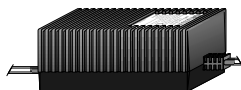
IRB-5



A-CB4 IR



A-KP RC



A-PS

LIMITED WARRANTY

The Russound A-LC1 is fully guaranteed for Two (2) years from the date of purchase against all defects in materials and workmanship. During this period Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects under the terms of the warranty. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. Damage to or destruction of components due to improper use voids the warranty. In these cases the repair will be made at the owner's expense. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

Russound
A/V DISTRIBUTION & CONTROL SYSTEMS

5 Forbes Rd. Newmarket, NH 03857, USA
 ☎ 603.659.5170 • Fax 603.659.5388
 e-mail: tech@russound.com

*the right
 connection*

Come visit us at:

www.russound.com

Russound
A/V DISTRIBUTION & CONTROL SYSTEMS

Local Source Input for
 A-BUS System

A-LC1

Instruction Manual

A-BUS



PRODUCT OVERVIEW

Used with the A-BUS system, the A-LC1 Local Source Input automatically selects between a local source (a CD player in the room) and the main audio system. Functionality and ease of operation make the A-LC1 a valuable addition to any A-BUS system.

APPLICATIONS

When wired inline to the A-BUS amplified module in the guest bedroom the A-LC1 allows your guest to play a CD of their choice in a CD player located in their room. The audio is amplified by the A-BUS amplified module and shared through the speakers in that room. The rest of the system continues to operate independently.

The A-LC1 could also be used to connect the line audio output of a television so that the audio from the TV can be heard through the local speakers.

When the A-LC1 senses audio on the local input, the main audio is switched off locally, the local audio is switched in and the status light on the A-KP turns on. When local audio is no longer sensed, the A-LC1 will switch back to the main audio input. If the main audio is running, the audio will revert back to main audio. If the main audio is not running the A-KP amplified module will automatically turn off.

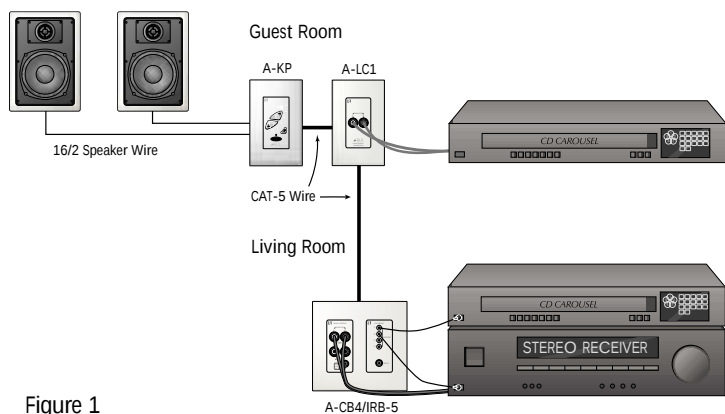


Figure 1

WIRING

Connect the A-LC1 inline from the A-CB4 (IR) connecting hub to the A-KP or amplified module.

The CAT-5 wire from the hub connects to the input of A-LC1 and a CAT-5 wire connects the output of the A-LC1 to the input of the A-KP.

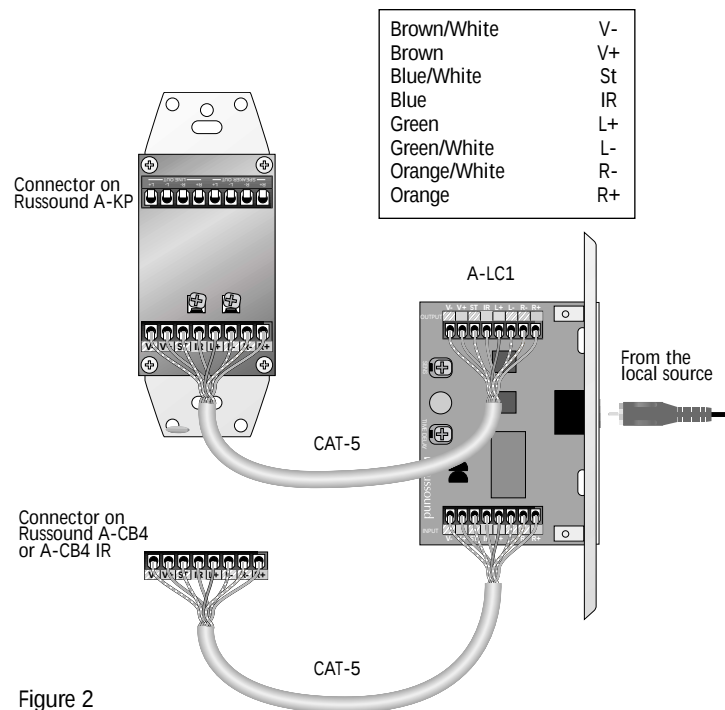
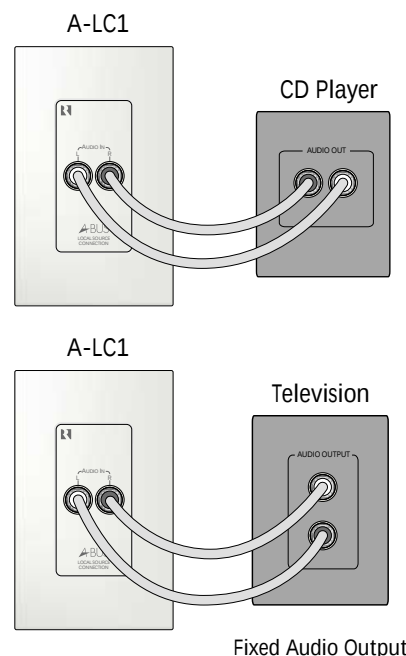


Figure 2

The local source, such as the audio output of a television or a CD player connects to the line audio input connections on the front panel of the A-LC1.

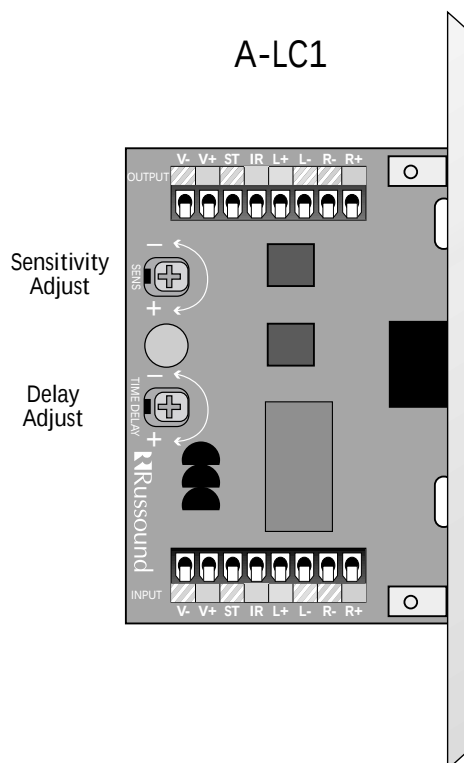


SETUP

The A-LC1 has delay and sensitivity adjustments that will allow you to customize the operation of the A-LC1.

DELAY The time delay after which the A-LC1 will switch back from the local source can be adjusted from 10 seconds to 1 1/2 minutes (this is from the full counter clockwise position).

SENSITIVITY The sensitivity adjustment determines how much signal is needed before the A-LC1 will switch over from the main source to the local source. The A-LC1 can be adjusted from very sensitive pickup (full clockwise) to less sensitive as it is adjusted counter clockwise.





A-LC1 TEST PROCEDURE

The purpose of this Test Procedure is to instruct both the Russound Test Department and any outside Service Technician.

Equipment Needed: CD Player (2)
A-CB4 IR
A-LC1 Instruction Manual
A-PS
Speakers
A-KP

Inspection: Inspect plate for scratches.
Inspect screening on plate and connectors on rear for correct labeling.
(refer to Figure 3 and to cover page of Test Procedure.)

NOTE: REFER TO DIAGRAMS ON PAGES 3,4,5 AND 6 FOR ASSISTANCE WITH SET UP.

Set Up:

1. Connect the A-KP (V- V+ ST IR L+ L- R- R+) using CAT 5 to the A-LC1. (refer to Figure 1.)
2. Connect the A-LC1 to the A-CB4 IR using CAT 5. (refer to Figure 1.)
3. Connect the A-CB4 IR to the A-PS power supply. (refer to Figure 4.)
4. Connect a CD player to Audio In on the A-CB4 IR.
5. Connect a second CD player to Audio In on the A-LC1.
6. Ensure that neither CD player is playing.
7. Connect a pair of speakers to the A-KP. (refer to Figure 2.)
8. Plug in the A-PS power supply to an AC outlet.

Test:

1. Ensure the Status Jumper on the A-KP and the A-CB4 IR is set in the Status Override position. (refer to Figure 5 and 6.)
2. Ensure the Sensitivity and Delay Adjustments are set to ¼ on the A-LC1.
3. Start the CD player that is connected to the ACB4 IR.
4. Turn on the A-KP and set the volume until the music is heard.
5. Turn on the CD player that is connected to the A-LC1 and start playing a CD. The music should mute the CD playing from the A-CB4 IR and then should be heard through the speakers. This will take up to approximately 5 seconds.
6. Stop the CD that is playing through the A-LC1. After about 25 seconds the CD that is still playing through the A-CB4 IR should be heard again.

Status Test:

7. Stop both CDs and unplug the power cord from the A-CB4 IR.
8. Move the Status Jumper on the A-KP and the A-CB4 IR over the to Status Enabled position. The Status LED on the A-KP should not be on.
9. Re-attach the power cord to the A-CB4 IR. Turn on the A-KP.

10. Start the CD player that is connected to the A-CB4 IR. The music should be heard through the speakers.
11. Turn on the CD player that is connected to the A-LC1 and start playing the CD. The music coming from the A-LC1 should mute the music coming from the A-CB4 IR. The Status LED should turn green when the music is heard.
12. Stop the CD that is playing through the A-LC1. After about 40 seconds the A-KP should go off along with the Status LED.
13. Play the CD that is going through the A-LC1. The Status LED will turn green. Turn on the A-KP and the music will be heard.

THE TEST PROCEDURE IS COMPLETE.

Poe
05/08/01

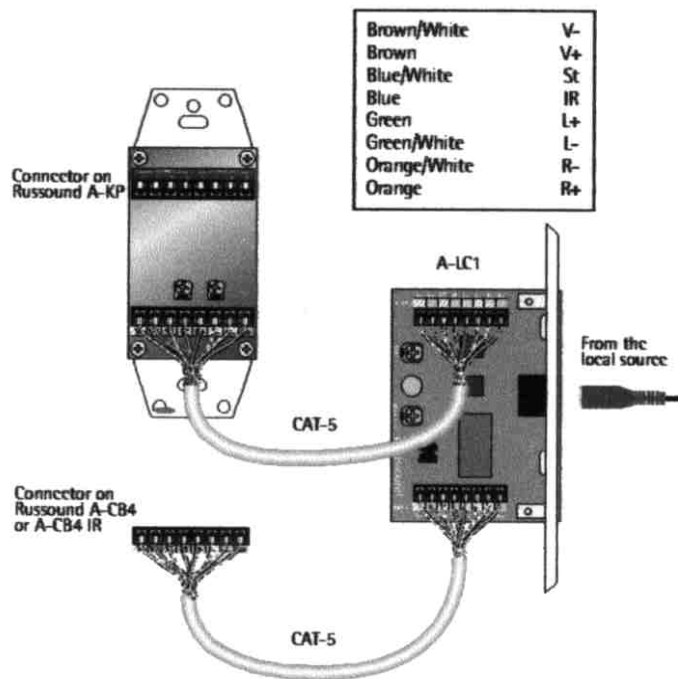


Figure 1.

SHOWS HOW THE A-LC1 IS CONNECTED TO THE A-CB4 IR AND THE A-KP. NOTE THE PROPER COLOR DESIGNATION OF THE CAT5.

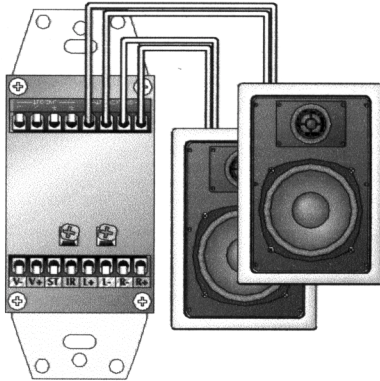
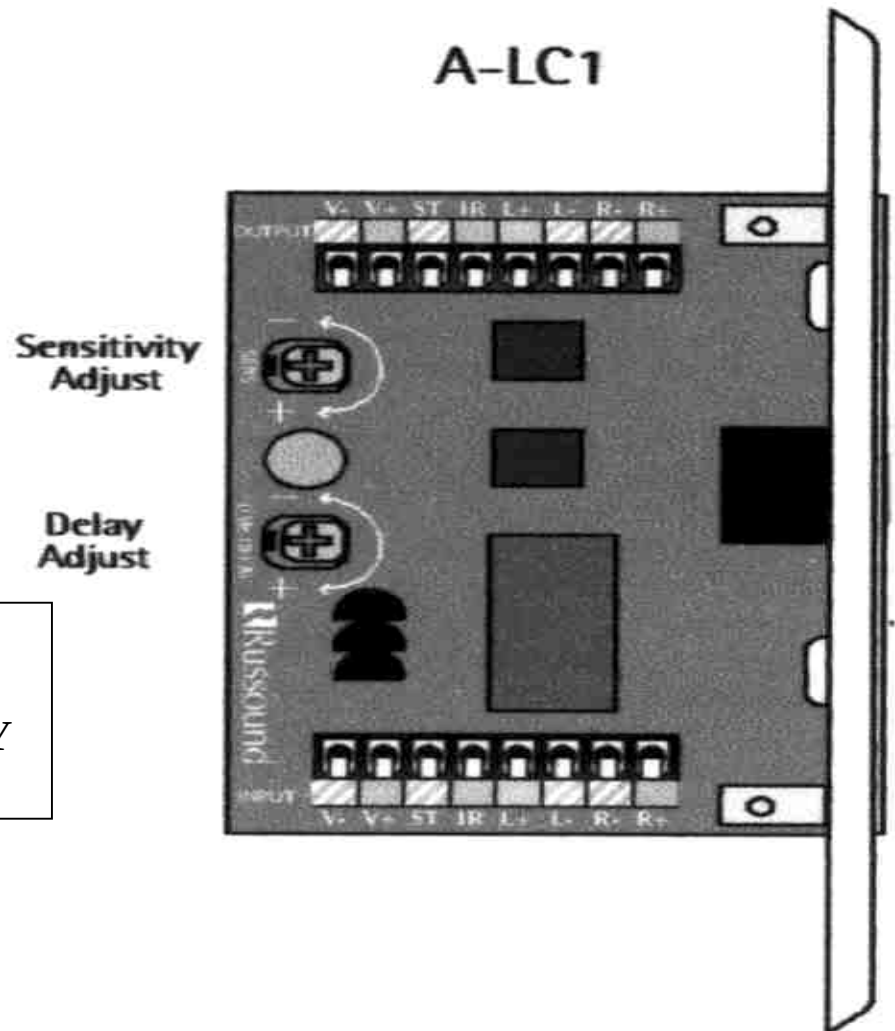


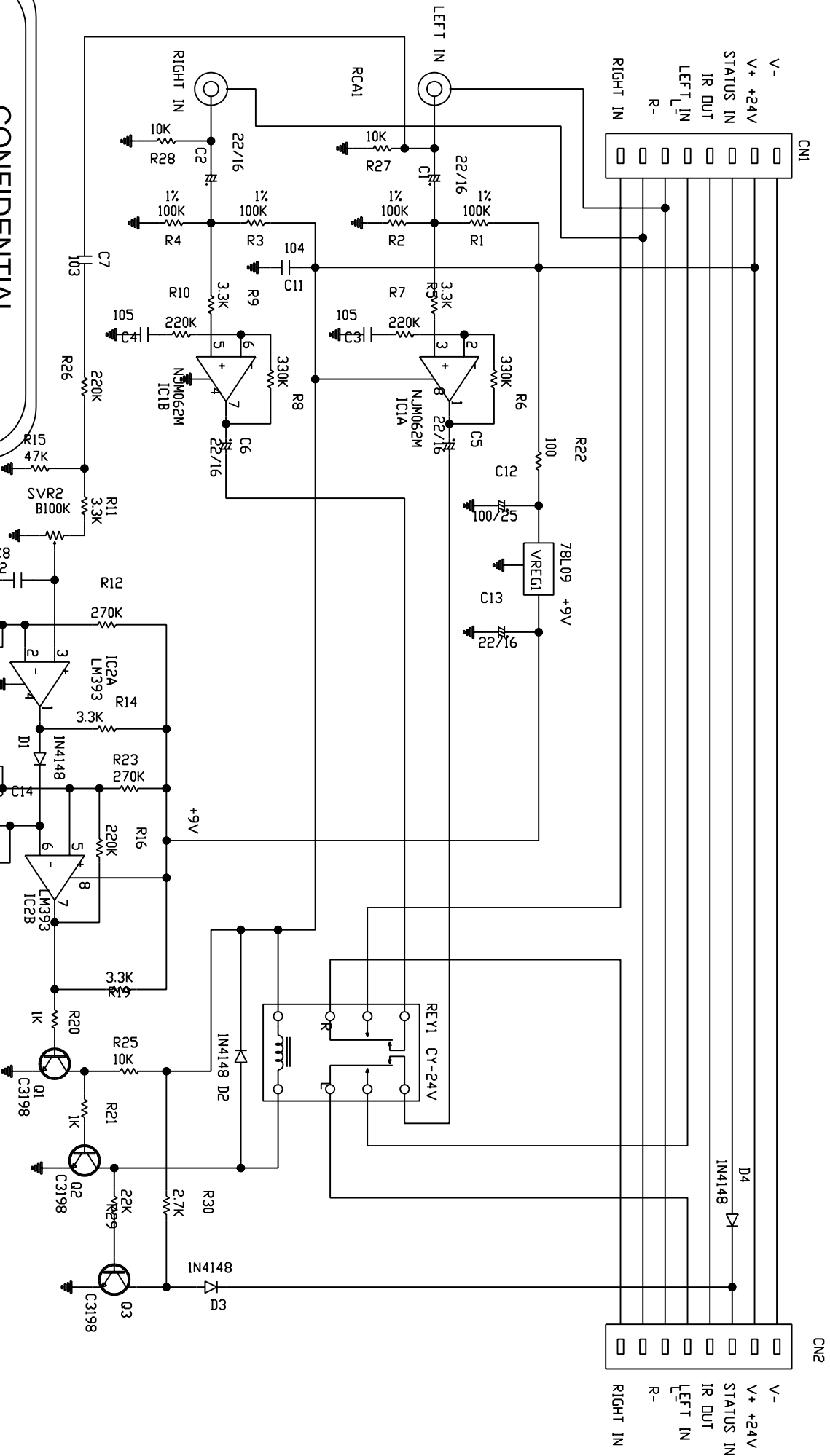
Figure 2.

SHOWS HOW THE
“SPEAKERS OUT” FROM
THE A-KP OR A-VC ARE
ATTACHED TO THE SET
OF SPEAKERS

Figure 3.

SHOWS A CLOSER LOOK
AT THE A-LC1 AND THE
DELAY AND SENSITIVITY
ADJUSTMENT





CONFIDENTIAL

RUSSOUND/FMP, INC. D.B.A.: RUSSOUND

THIS DOCUMENT IS PRIVATE AND THE SOLE PROPERTY OF RUSSOUND/FMP, INC. THE IDEAS AND INFORMATION ARE PROPRIETARY AND MAY NOT BE DISCLOSED TO THIRD PARTIES. ALL RIGHTS RESERVED. PRINTED IN USA. THIS DOCUMENT, OR PARTS THEREOF, MAY NOT BE REPRODUCED IN ANY FORM BY PHOTO, ELECTROSTATIC MECHANICAL, OR ANY OTHER METHOD FOR ANY USE, INCLUDING INFORMATION STORAGE AND RETRIEVAL, WITHOUT WRITTEN PERMISSION FROM RUSSOUND/FMP, INC.

NAME	SCHEMATIC DIAGRAM
MODEL NO.	A-1-C1
DRAWN	CHECKED
	APPROVED

01. 05 07

A-LC1 BILL OF MATERIALS

QTY.

DESCRIPTION

1	PANEL FRONT A-LC1 WHITE
3	SCREW T/S BH2 3X6BK NO.65
2	CONNECTOR RIA 310611-08
1	CAP ELEC 10V220UF RSS
5	CAP ELEC 16V22UF RSS
1	CAP ELEC 25V 100UF RSS
1	RELAY CY-24V PC
1	IC KA78L09AZ
1	JACK RCA 2P JK0200900G
3	TR KTC 3198Y
2	VARIABLE POT 100K
1	PAD SNOW CA-LCD
1	BOX GIFT A-LC1
1	MANUAL A-LC1
1	LABEL MODEL INNER A-LC1
2	LABEL CONNECTOR A-CB4
1	LABEL SERIAL KEYPAD
1	LABEL BARCODE C/BOX A-LC1
2	SCREW M/S FH 6-32UNCX19 MFZN-W
1	PAD FOAM PCK-IR (37.6X70.9X2T)
1	POLY BAG 110X160
1	POLY BAG 60X60
1	IC LM393MX SMD
1	IC TL062M (SOT-8)
1	CAP CERAMIC CHIP (2012) 102K
1	CAP CERAMIC CHIP (2012) 103K
1	CAPACITOR CHIP (2012) 0.1UF
2	CAP CERAMIC CHIP (2012) 1UF
4	DIODE 1N4148 (SMD-MELF TYPE)
1	PCB A-LC1
4	RES CHIP (2012) 1% 100KOHM
1	RES CHIP (2012) 1/10W 100 OHM
2	RES CHIP (2012) 1/10W 1K
4	RES CHIP (2012) 1/10W 10K
1	RES CHIP (2012) 1/10W 150 OHM
4	RES CHIP (2012) 1/10W 220K
1	RES CHIP (2012) 1/10W 2.7K
2	RES CHIP (2012) 1/10W 270K
5	RES CHIP (2012) 1/10W 3.3K
2	RES CHIP (2012) 1/10W 330K
1	RES CHIP (2012) 1/10W 47K
1	RES CHIP (2012) 1/10W 9.1K

