Link.MIDI

4x4 MIDI • USB INTERFACE

TAPCO®

TOTAL AUDIO PRODUCTION

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Only use attachments/accessories specified by the manufacturer.
10. Unplug this apparatus during lightning storms or when unused for long periods of time.
11. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

FCC Information

NOTE: *This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.*

Product Serial #:

Purchased at:

Date of purchase:

Part No. 0017142 Rev. A 10/05
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CONTENTS

Don't forget to visit our website at www.tapcogear.com
for more information about this and other TAPCO products.

INTRODUCTION

Thank you for purchasing the TAPCO Link.MIDI 4x4 USB MIDI Interface for digital recording systems equipped with a USB port on either a Macintosh or a PC.

The Link.MIDI 4x4 is a 4x4 USB MIDI interface that is powered directly off the USB connection so no external power supply is required. Since it uses the USB drivers in the operating system of the computer (Windows XP and OS X), no drivers are required to be installed.

The Link.MIDI 4x4 USB MIDI Interface

The Link.MIDI 4x4 is typically used to interface MIDI keyboards or other MIDI instruments and devices to MIDI sequencing software on a computer. It provides four MIDI inputs and four MIDI outputs on standard 5-pin MIDI connectors. A USB connector transfers the MIDI data to and from a PC or Macintosh computer. Since each MIDI connector can transmit MIDI data for up to 16 channels, the Link.MIDI 4x4 can handle up to 64 channels of MIDI data.

Link.MIDI 4x4 Features

- 4-In, 4-Out MIDI Interface (64x64 MIDI channels)
- High-speed USB connection to PC or Macintosh computers
- USB/THRU switch routes MIDI IN 1 to MIDI OUTS 1-4
- MIDI IN and MIDI OUT activity indicators for each port
- USB powered (requires no external power supply)
- Convenient collapsible swivel-foot for desktop operation
- Compact size

Link.MIDI 4x4 Minimum System Requirements

PC Requirements
- Windows XP (SP1)

Macintosh Requirements
- OS X (10.3 or later)
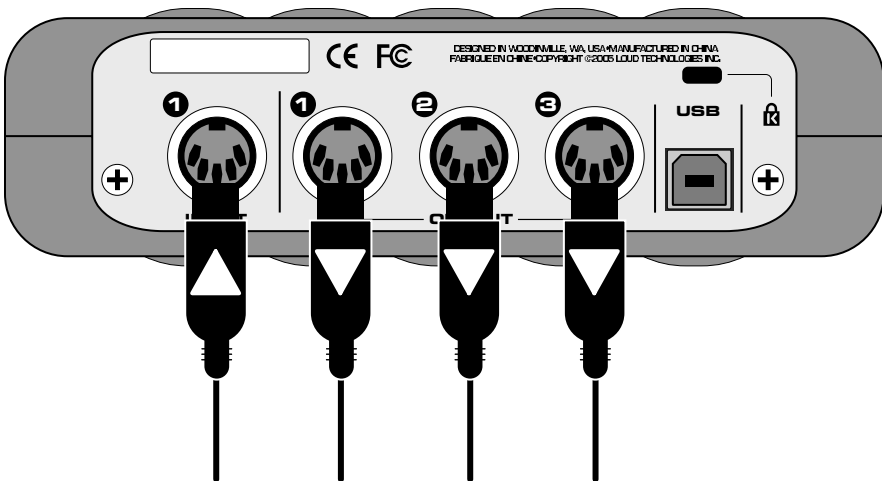
GETTING STARTED

Use this section to get your Link.MIDI 4x4 set up quickly.

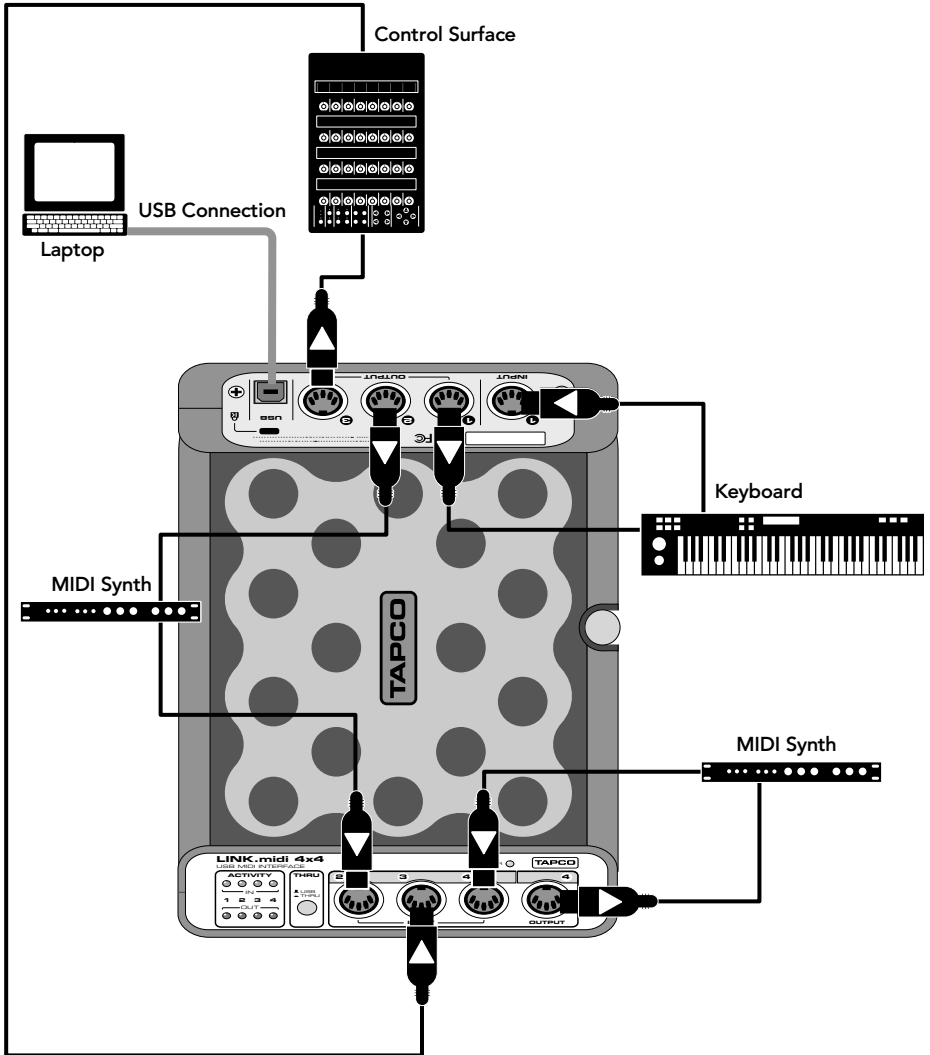## Connecting the Link.MIDI 4x4

- To stand the Link.MIDI 4x4 upright, pull the stabilizer bar downward and twist it out 90º from the body, as shown here.

- Connect your MIDI keyboard(s) and other MIDI equipped instruments or sound modules to the MIDI IN ports on the Link.MIDI 4x4.

- Connect the USB port on the Link.MIDI 4x4 to the USB port on your computer using the USB cable included in the box.

- Configure the Link.MIDI 4x4 in your application software.
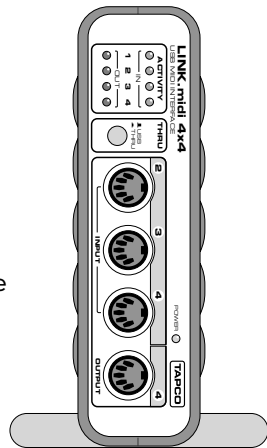
LOOK CLOSER Many MIDI Interface applications require connecting just one keyboard or MIDI controller to INPUT 1 and using multiple MIDI outputs. This is why INPUT 1 is located on the back of the Link.MIDI 4x4 along with OUTPUTS 1-3. This keeps all the cables in the back and out of the way.

Hookup Diagram

Control Surface

USB Connection

Laptop

Keyboard

MIDI Synth

MIDI Synth

LINK.midi 4x4
USB MIDI INTERFACE
ACTIVITY
THRU
IN
1 2 3 4
OUT

TAPCO

OUTPUT

Typical MIDI Studio Setup

This diagram demonstrates a typical MIDI studio setup. The USB port on the Link.MIDI 4x4 is connected to a computer running MIDI sequencing and music production software. The MIDI ports on a keyboard are connected to I/O 1 on the Link.MIDI 4x4, and a MIDI synthesizer is connected to I/O 2. You might connect a MIDI control surface to I/O 3, which can be used to control various functions in the software application. I/O 4 could be used for connecting a second MIDI synthesizer, drum pads, or a wind controller.

If there is an unused MIDI input, it could be used to input MIDI Time Code (MTC) from a drum machine or other sync source.

Configuration

You will need to configure your operating system to use the Link.MIDI 4x4.

Windows XP: Click Start > Settings > Control Panel. Double-click "Sounds and Audio Devices" and click the "Audio" tab. In the "MIDI music playback" drop down box, select one of the four USB Audio Devices representing the four MIDI inputs as the default MIDI playback device.

Mac OS X: In the Finder, click Applications > Utilities > Audio MIDI Setup. Under "MIDI Devices," select the TAPCO Link MIDI USB as the default MIDI device.

Link.MIDI 4x4 Default MIDI Device in OS X Audio MIDI Setup

Your MIDI software application may need to be configured to use the Link.MIDI 4x4 as well. Each application is different in the way that this is done, but in general there will be a "Settings" or "Setup" window that allows you to do this. In Tracktion 2, our easy-to-use music production software application, it is located under the "Settings" tab, in the "Audio Devices" window.
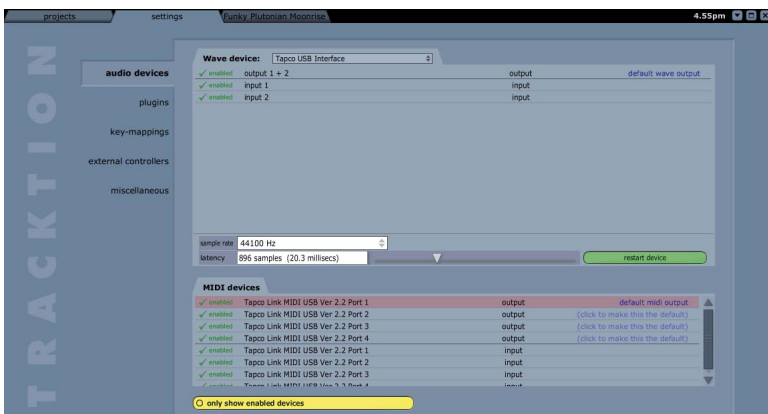
Link.MIDI 4x4 Default MIDI Device in Tracktion 2   **7**

LINK.MIDI 4X4 FEATURES

Front Panel

1. INPUT 2-4

These are standard 5-pin MIDI input connectors. Connect the MIDI OUT ports from your MIDI-equipped devices to these input connectors.

2. OUTPUT 4

This is a standard 5-pin MIDI output connector. Connect this to the MIDI IN ports on your MIDI-equipped devices.

3. ACTIVITY Indicators

There are four MIDI IN indicators and four MIDI OUT indicators. Anytime there is data transferred at any of the MIDI ports, its corresponding ACTIVITY indicator lights.

4. USB/THRU Switch

The Link.MIDI 4x4 has two modes of operation, USB mode and THRU mode.

USB: When this switch is out, the Link.MIDI 4x4 operates with four independent MIDI inputs and four independent MIDI outputs, all routed through the USB port to your computer's music production software application, which manages the routing of MIDI data to and from your computer.

THRU: When this switch is pushed in, MIDI data appearing at INPUT 1 is routed to OUTPUTS 1-4. In THRU mode, INPUTS 2-4 do not function and there is no MIDI data transferred via the USB connection. This is useful when you want to have one MIDI controller connected to two, three, or four sound modules or sequencers.
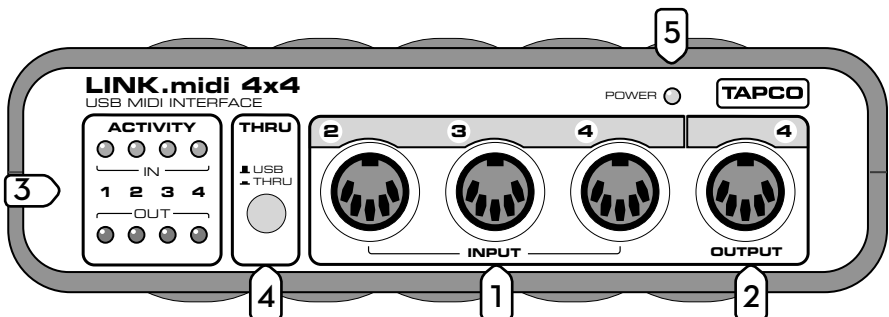
Note: The USB port must be connected to the computer in THRU mode to power the Link.MIDI 4x4, even though data is not transferred over the USB cable.

5. POWER Indicator

The Link.MIDI 4x4 is powered from the USB port. There is no power switch, so this LED lights up whenever the Link.MIDI 4x4 is connected to the USB port on your computer (and the computer is powered on).

Rear Panel

6. INPUT 1

This is a standard 5-pin MIDI input connector. Connect this to the MIDI OUT port on your MIDI-equipped device.

7. OUTPUT 1-3

These are standard 5-pin MIDI output connector. Connect these to the MIDI IN ports on your MIDI-equipped devices.

8. USB Connector

This is the main connection between the Link.MIDI 4x4 and the host computer. Use the USB cable provided to connect this port to a USB port on your computer.

9. Kensington Security Slot

To help prevent theft, the Link.MIDI 4x4 has a security slot designed to fit the popular Kensington security locks. A variety of models are available from their website at www.kensington.com.
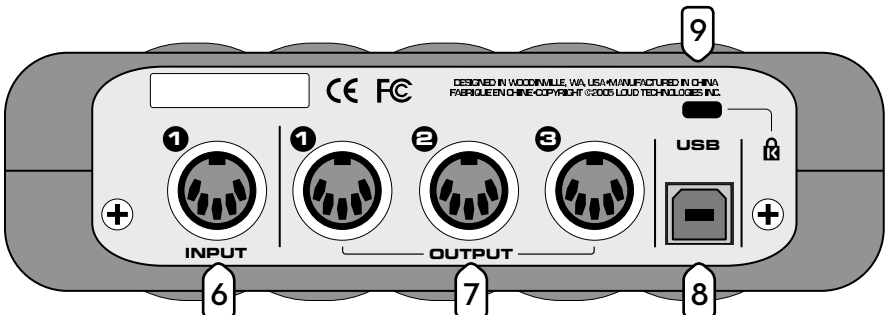
APPENDIX A: SERVICE INFORMATION

Warranty Service

Details concerning Warranty Service are spelled out in the Warranty section on pages 14-15.

If you think your TAPCO Link.MIDI 4x4 has a problem, please do everything you can to confirm it before calling for service. Doing so might save you from the deprivation of your Link.MIDI 4x4 and the associated suffering.

These may sound obvious to you, but here are some things you can check. Read on.

Troubleshooting

No Power

- Our favorite question: Is it plugged in? Make sure the USB cable is connected between your computer and the Link.MIDI 4x4. The computer must be on to provide power to the Link.MIDI 4x4 over the USB connection.
- Is the POWER LED illuminated? If not, try connecting the Link.MIDI 4x4 to another USB port on the computer (if available).

Lonely? Looking for that special someone?
Do you have a question about your TAPCO Link.USB 4x4?
Please call our Technical Support chaps at **1-877-827-2669**,
Monday to Friday, from 7 am to 5 pm PST.
After hours, visit www.tapcogear.com and look under **Contact Us**,
or e-mail us at techmail@tapcogear.com

Repair

Service for TAPCO products is available at a factory-authorized service center. Service for TAPCO products living outside the United States can be obtained through local dealers or distributors.

If your Link.MIDI 4x4 needs service, follow these instructions:

1. Review the preceding troubleshooting suggestions. Please.
2. Call Tech Support at 1-877-827-2669, 7 am to 5 pm PST, to explain the problem and obtain a Service Request Number. Have your Link. MIDI 4x4 serial number ready.
   You must have a Service Request Number before you can obtain factory-authorized.
3. Keep this owner's manual. We don't need it to repair the Link.MIDI 4x4.
4. Pack the Link.MIDI 4x4 in its original package, including endcaps and box. This is **VERY IMPORTANT**. When you call for the Service Request Number, please let Tech Support know if you need new packaging. You can order new packaging through our parts department. *TAPCO is not responsible for any damage that occurs due to non-factory packaging.*
5. Include a legible note stating your name, shipping address (no P.O. boxes), daytime phone number, RA number, and a detailed description of the problem, including how we can duplicate it.
6. Write the Service Request Number in **BIG PRINT** on top of the box. Units sent to us without the Service Request Number will be refused.
7. Tech Support will tell you where to ship the unit for repair. We suggest insurance for all forms of cartage.
8. You will need to contact the authorized service center for their latest turn-around times. The Link.MIDI 4x4 must be packaged in its original packing box, and must have the Service Request Number on the box. Once it's repaired, the authorized service center will ship it back by ground shipping, pre-paid (if it was a warranty repair).
   Note: Under the terms of the warranty, you must ship or drop-off the unit to an authorized service center. The return ground shipment is covered for those units deemed by us to be under warranty.
   Note: You must have a sales receipt from an Authorized TAPCO Dealer to qualify for a warranty repair.

APPENDIX B: LINK.MIDI 4X4 SPECIFICATIONS

System Requirements

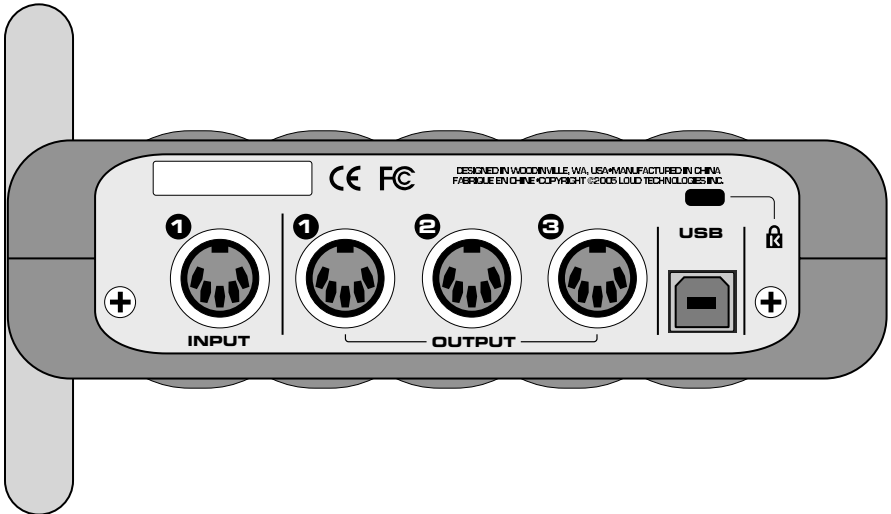|	
PC:	Windows XP (SP1)
	USB port
Macintosh:	OS X 10.3 or higher
	Native USB port (G3/G4 accelerator cards not supported)

Physical Dimensions and Weight

Height:	1.7 in/43 mm
Width:	6.1 in/155 mm
Depth:	6.8 in/173 mm
	7.6 in/193 mm with handles
Weight:	1.4 lb/0.6 kg

Disclaimer

Since we are always striving to make our products better by incorporating new and improved materials, components, and manufacturing methods, we reserve the right to change these specifications at any time without notice.

LINK.midi 4x4
USB MIDI INTERFACE

POWER ○ | TAPCO

ACTIVITY
○ ○ ○ ○
— IN —
1 2 3 4
— OUT —
○ ○ ○ ○

THRU
🔌 USB
▲ THRU

2 | 3 | 4 | 4
INPUT | OUTPUT

CE FC

DESIGNED IN WOODINVILLE, WA, USA•MANUFACTURED IN CHINA
FABRIQUE EN CHINE•COPYRIGHT ©2005 LOUD TECHNOLOGIES INC.

❶ | ❶ | ❷ | ❸ | USB
INPUT | OUTPUT
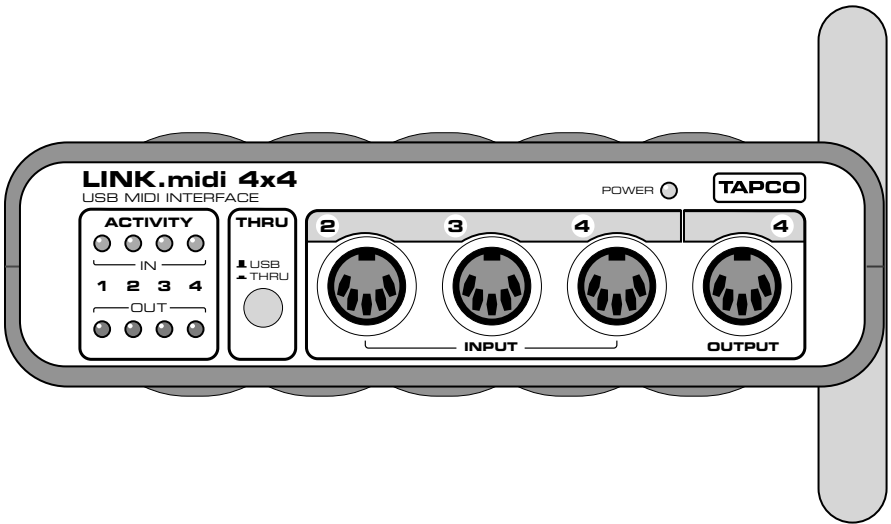
TAPCO LIMITED WARRANTY

A. LOUD Technologies Inc. warrants all materials, workmanship and proper operation of this TAPCO product for a period of **one year** from the original date of purchase. If any defects are found in the materials or workmanship, or if the product fails to function properly during the applicable warranty period, LOUD Technologies, at its option, will repair or replace the product. **This warranty applies only to equipment sold and delivered within the U.S. by LOUD Technologies or its authorized dealers.**

B. Failure to register online or return the product registration card will not void the one-year warranty.

C. Service and repairs of TAPCO products are to be performed **only** at a factory-authorized service center. Unauthorized service, repairs, or modification will void this warranty. To obtain repairs under warranty, you must have a copy of your sales receipt from the authorized TAPCO dealer where you purchased the product. It is necessary to establish purchase date and determine whether your TAPCO product is within the warranty period.

D. To obtain factory-authorized service:

1. Call TAPCO Technical Support at 877/827-2669, 7 AM to 5 PM Monday through Friday (Pacific Time) to get a Service Request Number. Products returned without a Service Request Number will be refused.

2. Pack the product in its original shipping carton. Also include a note explaining exactly how to duplicate the problem, a copy of the sales receipt with price and date showing, and your return stree address (no P.O. boxes or route numbers, please!). If we cannot duplicate the problem or establish the starting date of your Limited Warranty, we may, at our option, charge for service time.

3. Ship the product in its original shipping carton, **freight prepaid**, to the authorized service center. The address of your closest authorized service center will be given to you by Technical Support.

IMPORTANT: Make sure that the Service Request Number is plainly written on the shipping carton.

E. LOUD Technologies Inc. reserves the right to inspect any products that may be the subject of any warranty claims before repair or replacement is carried out. LOUD Technologies may, at our option, require proof of the original date of purchase in the form of a dated copy of the original dealer's invoice or sales receipt. Final determination of warranty coverage lies solely with LOUD Technologies Inc.

F. TAPCO products returned to one of the LOUD Technologies factory-authorized service centers and deemed eligible for repair or replacement under the terms of this warranty will be repaired or replaced within thirty days of receipt. LOUD Technologies and its authorized service centers may use refurbished parts for repair or replacement of any product. Products returned to LOUD Technologies that do not meet the terms of this Warranty will not be repaired unless payment is received for labor, materials, return freight, and insurance. Products repaired under warranty will be returned freight prepaid by LOUD Technologies to any location within the boundaries of the USA.

G. LOUD Technologies warrants all repairs performed for 90 days or for the remainder of the original warranty period. This warranty does not extend to damage resulting from improper installation, misuse, neglect or abuse, or to exterior appearance. This warranty is recognized only if the inspection seals and serial number on the unit have not been defaced or removed.

H. LOUD Technologies assumes no responsibility for the quality or timeliness of repairs performed by Authorized TAPCO Service Centers.

I. This warranty is extended to the original purchaser and to anyone who may subsequently purchase this product within the applicable warranty period. A copy of the sales receipt is required to obtain warranty repairs.

J. This is your sole warranty. LOUD Technologies Inc. does not authorize any third party, including any dealer or sales representative, to assume any liability on behalf of LOUD Technologies or to make any warranty for LOUD Technologies Inc.

K. THE WARRANTY GIVEN ON THIS PAGE IS THE SOLE WARRANTY GIVEN BY LOUD TECHNOLOGIES INC. AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE WARRANTY GIVEN ON THIS PAGE SHALL BE STRICTLY LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF ORIGINAL PURCHASE FROM AN AUTHORIZED TAPCO DEALER. UPON EXPIRATION OF THE APPLICABLE WARRANTY PERIOD, LOUD TECHNOLOGIES INC. SHALL HAVE NO FURTHER WARRANTY OBLIGATION OF ANY KIND. LOUD TECHNOLOGIES INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES THAT MAY RESULT FROM ANY DEFECT IN THE TAPCO PRODUCT OR ANY WARRANTY CLAIM. Some states do not allow exclusion or limitation of incidental, special, or consequential damages or a limitation on how long warranties last, so some of the above limitations and exclusions may not apply to you. This warranty provides specific legal rights and you may have other rights which vary from state to state.

Please keep your sales receipt in a safe place.