**S770.01 Assembly and Test**

**1.0 PURPOSE AND SCOPE**

The purpose of this document is to provide the detail and instruction necessary to perform the assembly and test of the S770.01 (SoundTrack LxT, LXT1 or LXT2) or S770.05 (SoundExpert LxT, LXT-SE). This process also serves as a verification that the assembly continues to meet the specifications and criteria established by Engineering.

**2.0 AFFECTED DEPARTMENTS**

Manufacturing

**3.0 REFERENCE DOCUMENTS**

* A770.01 Schematics and loading diagram
* S770 assembly drawings.
* D0001.8305

**4.0 RESPONSIBILITIES & AUTHORITY**

The technician has the following responsibilities and authority:

* Verify compliance of the product under test to specification.
* Troubleshoot and correct product as required.
* Communicate concerns to supervisor or Quality Assurance.
* Request management review of product concerns.
* Use proper ESD protective equipment.

**5.0 SAFETY PRECAUTIONS**

* Safety glasses are required when soldering, lead clipping, or testing power supplies.
* Follow general electrical precautions for working with energized, low voltage circuits.

**6.0 EQUIPMENT & MATERIALS**

* Four AA batteries
* 0621.0095 - USB cable.
* Test station equipped with signal generator (SRS DS360 or 2900 with 2239) and LxT/831 test software
* CBL139 AC/DC output cable
* CBL093 BNC male to 5-pin male Switchcraft cable
* LXT-HS headset

**7.0 INSPECTION**

Inspect the parts for nonconformities, visual defects or any cosmetic errors.

**Spot Check** Refer to Document D0001.8305

Perform a spot check on at least 10% of the LxT’s in each batch

Note: Checking at least 10% of the LxT’s in each batch should allow LD to verify what’s being done by the contract manufacturer.

1. **ASSEMBLY**

Case the LxT up following the assembly drawings

 🡪 (ASSY LxT/831 finished Unit) S770.XX.

1. **Install Labels**
	1. Place the battery warning label in the battery compartment (print on stock M770.0042). Place on the right side wall centered with Calibration label with top even with the top of the side wall. See example as shown. 🡪
	2. S770.05 only: Place the M770.0060 label on the battery door.
	3. S770.05 only: Place the M770.0059 badge on the front case.
2. **Load Firmware, Model and Serial Number**
	1. Connect the LxT to the computer using the USB cable, (0621.0095).
	2. Turn the LxT on.
	3. Verify the LxT has the latest firmware version; update as needed.
	4. Open the LxT test. C:\Program Files\Larson Davis\LxTTest\LxTTest.exe.
	5. Click on **Tools** then **Instrument Setup**.
	6. S770.05 only: Select “LxT SE” from the Model Number drop down menu.
	7. S770.05 only: Enter into the Serial Number field the next sequential serial number. An LxT SE uses the same serial number sequence and label as the LxT1.
	8. S770.01 only: Enter into the Serial Number field a code of **000100** for test purposed only (skip this step if this code is already in). The actual serial number will be entered in a later process.
	9. Set Manufactured Date for today and click **Ok**.
	10. Set the LCD Contrast as needed.
	11. Press the **ON/OFF** key to turn the LxT “**OFF**”.
	12. S770.05 only: Install the corresponding serial number label on the back case.
3. **Test with AA batteries**
	1. Install four AA batteries into the LxT to check the battery operation.
	2. Power on the LxT and verify the battery icon is showing on the LxT.
	3. Plug a USB cable (0621.0095) into the LxT and verify the lighting bolt appears were the battery icon was.
	4. Press the **ON/OFF** key and see both battery and USB voltages.
	5. Press and hold the **ON/OFF** key again to turn the LxT “**OFF**”.
	6. Remove the batteries and proceed to the next step.
4. **Run the LxT on the LxT Test program**
	* 1. Connect the CBL093 cable from the output of the 2239 to the LxT.
		2. Press the **ON/OFF** to turn the LxT “**ON**”.
		3. Using LXT Test:
		4. Click on the  icon then select **LxT No Preamp**.
		5. Click the Run  icon.
		6. Verify that the LxT passed all tests.
		7. With the LxT Test open, select **Tools**, then **Format LxT File System**.
		8. Repeat process for all additional LxT’s.

H. **Final Step**

 Complete jobs and store the S770.01 or S770.05 on the shelf.

1. **RECORDS**

There are no records

**10.0 DISTRIBUTION**

These instructions are available to employees electronically via the online Document Control area.

**11.0 REVISION HISTORY**

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| **DCO #** | **REV** | **DATE** | **INITIALS** | **CHANGES MADE** |
| 859 | A | 5/19/05 | JG | Initial Release |
| 986B | B | 11/30/06 | RH | Made specific to the S770.01 assembly, minor grammatical and format fixes. |
| 1065 | C | 03/12/08 | AJR | Added SRS DS360, CBL093, running LXT–RPT tests, reduced some test to only one per batch to verify that Contract Manufacturer is correct. |
| ECO 3777 | D | 27 Mar 2009 | AJR | Added Battery Warning Label |
| 1367 | E | 03/06/12 | EO | Added and removed items to meet the current process needs  |
| ECO 4206 | F | 4/16/13 | RH & AJR | Added specific instructions for S770.05 (LxT-SE or SoundExpert™ LxT) |
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