SHINJITSU AUDIO
Luxury Audio Design

HIRO 6.5L KIT
INSTRUCTIONS

SHINJITSU AUDIO
ESTD
ARIZONA
2023
HIRO 6.5L KIT

HIRO 6.5L KIT CHECK LIST

Parts List Per Pair

- ☐ Cabinet Tops (2)
- ☐ Cabinet Bottoms (2)
- ☐ Cabinet Sides (4)
- ☐ Preassembled Cabinet Front Baffle (2)
- ☐ Preassembled Cabinet Rear Baffle (2)
- ☐ Mark Audio CHR 120 Main Drivers (2)
- ☐ Port Tube Assembly (2)
- ☐ Speaker Binding Posts Rear (as ordered)

- ☐ Horn Assembly with Brackets and Screws
- ☐ 2" Screw for Center Round Horn Plinth
- ☐ Horn Binding Posts (4)
- ☐ Horn Wires (4)
- ☐ Horn Resistors (6)
- ☐ Screw Covers (6)
- ☐ Horn Negative Wire (Black) (2)
- ☐ Speaker Stuffing (2 1 gallon bags)

Tools Required

- ☐ Clamps 18" (8) 24" (4) per speaker
- ☐ 12MM Socket with Extension and Small Ratchet Wrench
- ☐ 10MM Box End Wrench for Horn
- ☐ Supplied Torx Head Bit for Top Horn Screws
- ☐ Glue (preferably Titebond Green)
- ☐ Finish of Choice (preferably Odies Oil One-Step Finish)
- ☐ 120 and 400 Grit Sandpaper
- ☐ Cloth (White Cotton Only) to Wipe off Oil
- ☐ PVC Cement

Important Notes

- Ensure your work surface is clean and free from debris to avoid damaging the wood surfaces.
- Avoid oversanding the cabinet top veneer sheet as it could ruin the cabinet.
- Handle parts carefully during assembly to prevent damage.

Assembly Steps
Let's Get Started!

(Click on Numbered Photos to Enlarge)

1. **Prepare Workspace:**
   Organize all parts in a well-lit and clean workspace.

2. **Pre-Assembly Checks:**
   Check and confirm all necessary parts are available and undamaged.

3. **Glue & Clamp Cabinet Panels:**
   Apply liberal amounts of Titebond Green glue along the
   edges of the cabinet panels.

   Carefully join and press panels together to form the cabinet structure.
   Ensure proper fit with no misalignments. Use clamps for secure
   adhesion. Wipe off excess glue with a damp cloth. Allow 24 hours to dry.

4. **Surface Preparation:**
   Sand all cabinet surfaces. Remove horn and its brackets from round
   wooden horn plinth to enable proper sanding and finishing. Perform final
   sanding (200 grit) of all unfinished surfaces without sanding through the
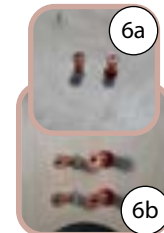   first cabinet plywood layer.

5. **Cabinet & Horn Plinth Surface Finishing:**
   Apply chosen finishes as directed by manufacturers, including drying.

6. **Install all Speaker Posts: [LABELS]**
   Place speaker and horn binding posts into designated holes. Red to right,
   White to left, as shown in the photo. Secure with nuts and lock washers.

7. **Install Inner Port Tube: [LABELS]**
   Secure the inner port tube by glueing the junction ring
   and port inner flange using PVC Cement. Insure a
   tight connection.

8. **Electrical Connections:**
   Connect designated wires to horn and main driver terminals as specified,
   ensuring tightness. Horn Negative wire [Black] is terminated on both ends.
   Be certain that it is connected to the top horn negative terminal as well as
   the rear horn negative terminal.

9. **Stuff the Box:**
   Place stuffing from gallon bag into the speaker through
   the main driver opening. Do not compress.

10. Main Driver Placement:

Affix the main driver with supplied screws and connect to the crossover wires with blue connectors. Ensure red to red and black to black polarity.

11. Horn Placement:

Secure the horn plinth, then place the horn atop it. Ensure proper alignment and secure brackets without over-tightening. Place screw caps over the exposed screws on top of horn plinth.

12. Horn Hook-Up:

Connect horn jumpers to horn binding posts. Ensure reverse polarity as shown. Install the resistor according to your preference.

13. Speaker Connections:

Jumper terminals if using one amplifier per side (bi-amp).

14. Final Checks:

Ensure all parts are securely attached and connections are correct.

15. Testing and Troubleshooting:

Conduct a thorough test before use. Refer to troubleshooting instructions for potential issues.

Enjoy!

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HIRO 6.5L KIT
MATCH THE DOTS ● ●

dot **wire tag**

Ensuring Correct Connections

All wires within the kit are designed to mate with their corresponding connectors through ring terminals. These terminals are color-coded, and each wire has tags marked with dots of matching colors. Your goal during assembly is to match these colored wires to their designated locations, identified by the mutually color-tagged connectors.

Why Color-Coded Connections?

For ease of construction and to streamline the assembly process, this color-coding system is implemented to ensure accurate connections. By matching the colored dots on the wire tags with their indentical colors on the connectors, you're securing correct and precise connections without confusion.

Step-by-Step Assembly

Identify Corresponding Colors: Take note of the color-coded dots on the wire tags and match them with the connectors that share the same color. This initial identification is crucial to streamline the wiring process.

Match and Secure

Once identified, carefully mate each wire to its corresponding color-tagged connector. The ring terminals on the wires should attach via the supplied nut. Ensure a secure connection by ensuring nuts are firmly torqued down.

Double-Check Connections

As you progress through the assembly, periodically double-check the color-coding to verify that each wire is correctly connected to its designated location. This precautionary step prevents any potential errors and guarantees accurate wiring. There will be no loose wires.

Main Driver Wiring

Connect via blue push terminals the red wire to the main driver's red terminal. Connect the black wire to the driver's dark blue terminal. **WARNING:** Failure to connect these properly will lead to main driver not functioning.

Trouble Shooting

By following these instructions and utilizing the color-coded dots and wire tags, you're on track to assemble your kit accurately and efficiently. The number one reason for lack of driver audio output is wrongly assigned connections. The second reason is not placing the horn resistor in the proper location.

Final Thoughts ● ● ● ● ● ●

Utilizing the color-coded system ensures a straightforward and error-free assembly process. It's the most efficient way to guarantee that your connections are accurate, facilitating a seamless setup and ensuring optimal performance from your 6.5 kit.