BAVIS
FABACRAFT

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BavSonic^{TM} One on One Audio System

Installation and Service Manual

BavSonic™ One on One Audio

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Important Safety Instructions

1. READ THESE INSTRUCTIONS

2. KEEP THESE INSTRUCTIONS

3. HEED ALL WARNINGS

4. FOLLOW ALL INSTRUCTIONS

5. DO <u>NOT</u> USE THIS APPARATUS NEAR WATER

6. CLEAN ONLY WITH A DRY CLOTH

7. DO NOT BLOCK ANY VENTILATION OPENINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS

8. DO <u>NOT</u> INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES OR OTHER APPARATUS (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT

9. PROTECT THE POWER CORD FROM BEING WALKED ON OR PINCHED PARTICULARY AT PLUGS, CONVENIENCE RECEPTACLES AND THE POINT WHERE THEY EXIT THE APPARATUS

10. ONLY USE ATTACHMENTS/ ACCESSORIES SPECIFIED BY THE MANUFACTURER

11. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL. SERVICING IS REQUIRED WHEN THE APPARATUS HAS BEEN DAMAGED IN ANY WAY, SUCH AS POWER-SUPPLY CORD OR PLUG IS DAMAGED, LIQUID HAS BEEN SPILLED OR OBJECTS FALLEN INTO THE APPARATUS, THE APPARATUS HAS BEEN EXPOSED TO RAIN OR MOISTURE, DOES NOT OPERATE NORMALLY OR HAS BEEN DROPPED.

Additional Safety Instructions

1. WARNING – TO REDUCE THE RISK OF FIRE OR ELECTRONIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

2. ONLY USE TAMURA MODEL 420AS20045 OR TRIAD WAU20-500 AC ADAPTER WITH THIS APPARATUS

Revised, September 8, 2014

BavSonic™ One on One Audio

Power requirements: (1) outlet providing 120Vac, 60Hz, 13w

The BavSonic™ One on One audio system lets one inside position talk to one remote position.

Features

- Full duplex operation

- Electret condenser microphone

- Proprietary closed back speaker for maximum efficiency and minimum feedback.

- Case is of heavy 16ga steel, & .08 aluminum construction with a durable powder coated finish and discrete BavSonic™ audio board/components.

- Inside microphone and speaker are built into the console unit.

- Built-in call tone is included in the console.

- Easy electrical connections.
  One round plug-in jack for the AC power which comes from a UL Listed 18vac plug-in transformer. Convenient plug in connectors for the remote audio components.

- Two inside controls:
  Rocker switch for Standby and ON.
  Incoming volume control knob.

- Standard service adjustments.
  Incoming and outgoing gain controls. See section labeled **ADJUSTMENT** for more information.

Installation

Console:
The console is designed to sit on the counter top. There is one console per lane with the speaker facing backward.

The power comes from a UL Listed transformer supplied with the kit. Plug the round end of the transformer provided into the round jack on the board inside the console. Plug the transformer into a 120vac outlet.

Customer End:
Make the customer audio component connections. Connections are Molex. Each component has a different connector. Board is labeled accordingly, see page 5.

External Audio Components:
We supply many different types of external audio components. These must be selected to suit the needs of the applications. The rugged, weatherized components that we supply are designed specifically for outdoor audio communication. Off the shelf Hi-Fidelity components are not weatherproof, nor were they designed for the rigors of the drive-thru environment, hence, they do not last long when used.

For a complete customer audio panel for use with the Transaction Drawer™, order P/N 24031992.

Units with handset:
For private conversations, we offer a handset/hands free version of the 1 on 1 system, which switches the mic and speaker from the console to the handset allowing both the convenience of hands free operation and privacy for delicate conversations.

Adjustment

It is necessary to disassemble the console to adjust the gain controls. Disassembly of the console is done by turning the thumbscrew on the back of the console that secures the top to the bottom. Carefully open the console. For details on the location of the adjustments see Fig.1 on page 5.

The incoming and outgoing gain controls should be adjusted clockwise, at the same rate, until feedback occurs, then counterclockwise until the feedback stops. This should complete the adjustment. If the incoming level is not sufficiently high enough, the outgoing level will have to be reduced to be able to get additional incoming volume level. The gain levels are a balance; adjustment of each has an effect on the other. If the incoming volume is still low, check to see if the speaker back-box is in place and that the leads have hot melt glue on them. If the incoming level is too high, adjust it to a lower level. Reassemble the console.

NOTE: The incoming volume knob should be turned all the way clockwise for this procedure.

NOTE: There is a separate volume control in the handle of the handset for the handset speaker volume.

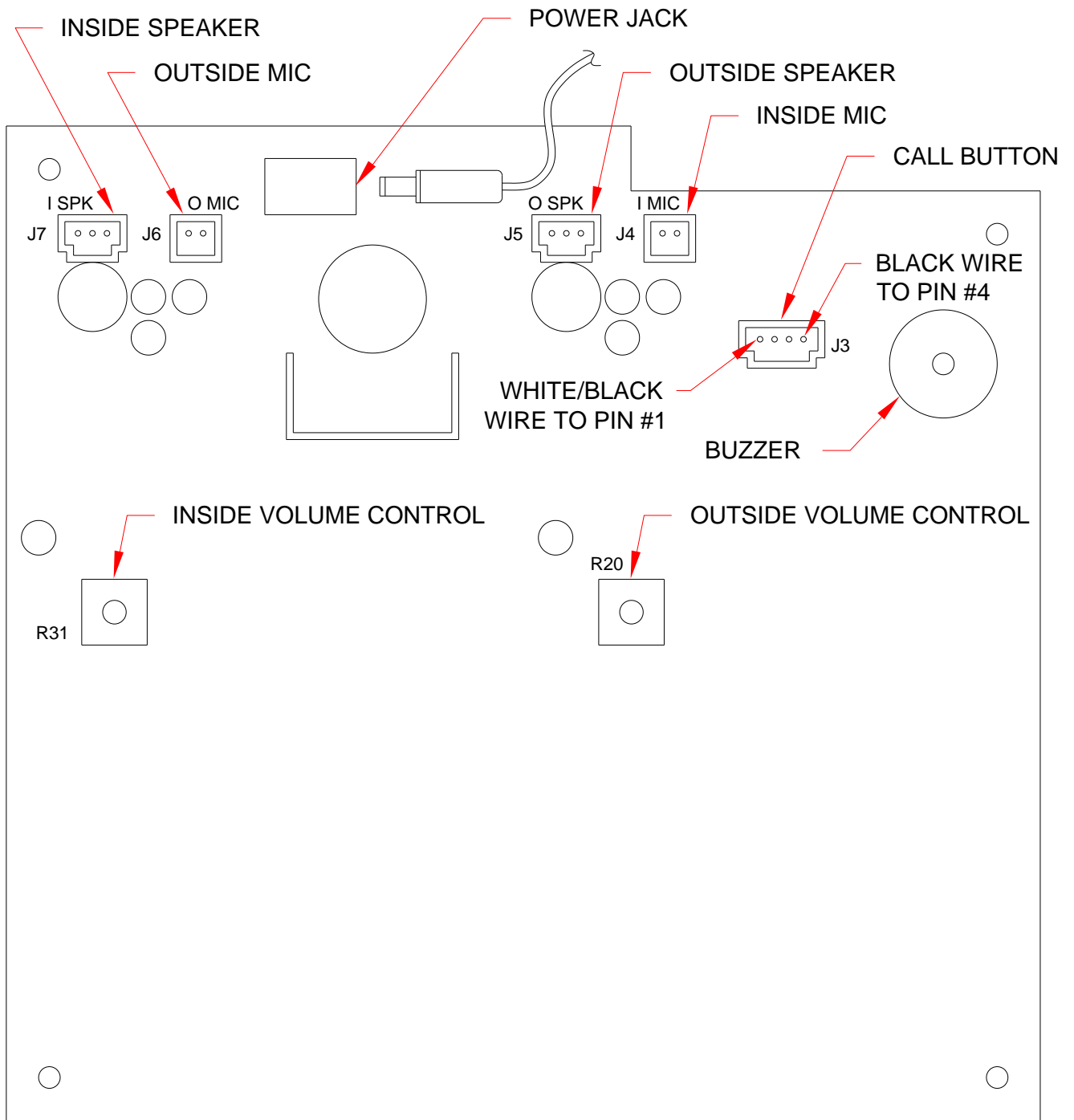# Console Audio Board

FIG. 1

Troubleshooting

Audio doesn't work

       Outlet on?
       Transformer plugged in?
       Check for 18vac at connector end. No 18vac? Replace transformer.
       Still doesn't work? Reseat handset in cradle (if present).
       No handset present? Replace console.

No incoming (Assumes outgoing audio)

       Adjust gain.
       Check power to audio board.
       No power? Check cables for short.
       Cables good? Replace audio board.
       Doesn't work?   Replace remote microphone.
       Doesn't work?   Replace console speaker.
       Doesn't work?   Replace audio board.
       Doesn't work? Consult factory.

No call tone (Assumes audio works)

       Check call button for continuity when depressed with leads disconnected.
       No continuity? Replace button.
       Continuity?   Replace audio board.
       Doesn't work?   Consult factory.

For assistance, call Technical Service at 1-800-937-3322.

Installation and Service Tool List For Audio

1/8" And 3/8" Flathead Screwdrivers
#0 And #2 Phillips Screwdrivers
1/16" And 3/32" Allen Wrenches
1/2" Open-End Wrench
1/4", 5/16", 11/32", 3/8", and 1/2" Nut Drivers
Wire Cutters
Wire Strippers
Wire Crimpers
Volt Meter
Electric Drill
Drill Bits
Level
7/8" Unibit
Fish Tape
Loctite