Task (Major Step)	Process / Key Points / Reason Why (if applicable)	Tools Required / Reference Materials
1. **Connect computer to network**	Connect to network via network switch. This switch is located in the fiber conversion box or in the control enclosure. You can also plug into each amplifier separately if accessible.	• Video: Sportsound Troubleshooting With Cobranet Discovery • Laptop w/ CobraNet Discovery software • Ethernet cable
2. **Open CobraNet Discovery**	***Cobranet Discovery must be installed on laptop*** If not, follow instructions in **Section 2** of the Amplifier Field Guide to install and configure software. Set IP Address to 192.168.1.160 with subnet mask 255.255.0.0 **Note:** Disable wireless adapters and VPN software.	Sportsound Amplifier Field Guide (DD3318172)
3. **Verify ALL Amplifiers Are Online With Latest Firmware and Confirm IP Addresses are Correct**	Verify all amplifiers are showing up in CobraNet Discovery and have the latest firmware (REV B). To update firmware, follow **Section 4** of the Amplifier Field Guide. To use Monitor Panels, IP addresses for amplifiers need to be statically set. Devices shipped after January 2014 should be set prior to shipping; earlier systems will need their IP addresses set correctly. Refer to **Section 5** of the Amplifier Field Guide for this one-time procedure if IP addresses on devices do not match the **Static IP addresses per system type** chart at right.	Sportsound Amplifier Field Guide (DD3318172)
4. **Open Monitor Panel for the Sound System and Test Amplifier/Driver Output**	***Sportsound Monitor Panel must be installed on laptop*** If not, go to dakfiles.daktronics.com to download. Open the Monitor Panel for the system and click **Start Monitoring**. Play a full-frequency audio file through the system. Verify each amplifier/driver combo is outputting audio by first placing all Amplifier Channels in Standby, then one at a time, unmute them. If you hear audio playing for the channel that is unmuted, the amplifier is outputting audio.	• Monitor Application Operational Video • Dakfiles Monitor Panels Software Download Link
5. **Verify Impedance Values of Drivers are Within Range**	**Audio levels get loud during this test. Proceed with caution.** Play a test tone to each amplifier by clicking **Test Tone**. The Test Tone is played for 4 seconds and then it automatically shuts off. Repeat as necessary. Impedance values fluctuate at first and will stabilize at the end of the tone. Pay close attention and use the last value shown. Check both values on dual channel amps. Take a screenshot of all amplifiers in Test Tone mode at once to submit in deliverables. Reference the range shown at the top of each channel for correct values. **Double Impedance Value** = Blown Driver or Bad Connection **Signal Low** = No Sound = Blown Amp Channel, All Drivers Blown on Channel, or Bad Harness Connection **Short** = Short in Connection	• Monitor Application Operational Video

Products Involved:
Sportsound 500HD, 1500HD, 2000HD
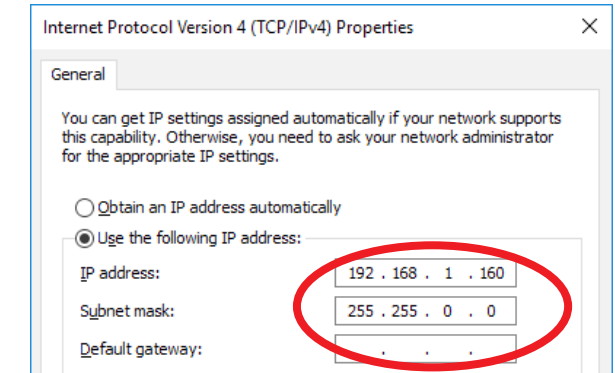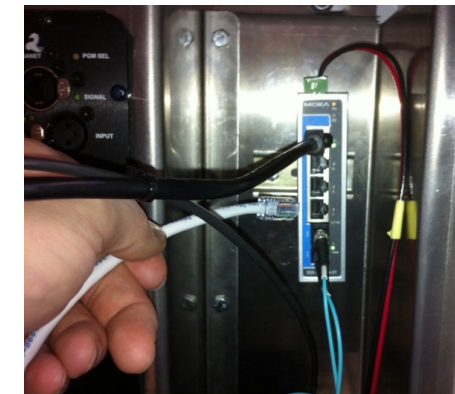
1. Connect to Network

2. Change IP Address

Devices in Discovery for Standard Products		
Product	**Amps**	**Media Converter**
500HD-SL/SR	1	1
500HD-Dual	2	1
1500HD	4	1
2000HD	10	1

Static IP Addresses per System Type	
500HD	
AMP 1 SP3	192.168.1.11
AMP 2 SP2H	192.168.1.12
1500HD	
AMP 1 SP1	192.168.1.11
AMP 2 SP2L	192.168.1.12
AMP 3 SP2L	192.168.1.13
AMP 4 SP1	192.168.1.14

2000HD	
AMP 1 SP2H	192.168.1.11
AMP 2 SP2L	192.168.1.12
AMP 3 SP2L	192.168.1.13
AMP 4 SP2L	192.168.1.14
AMP 5 SP2L	192.168.1.15
AMP 6 SP2L	192.168.1.16
AMP 7 SP2L	192.168.1.17
AMP 8 SP1	192.168.1.18
AMP 9 SP2L	192.168.1.19
AMP 10 SP1	192.168.1.20

3. # Devices on Network

2 & 3. CobraNet Discovery

DD2738410
Rev 05
08 March 2019

201 Daktronics Drive
Brookings, SD 57006-5128
www.daktronics.com/support
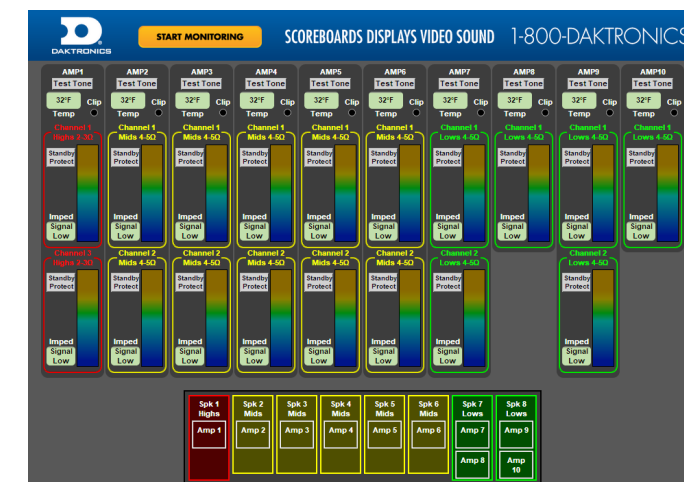800.325.8766

Task (Major Step)	Process / Key Points / Reason Why (if applicable)	Tools Required / Reference Materials
6. If Problems Found	If impedances do not match the reference values shown, refer to the **Amplifier Troubleshooting** section in the Sportsound Amplifier Field Guide or the **Driver Troubleshooting** section in the system Installation Manual.	• 500HD Installation Manual • 1500HD Installation Manual • 2000HD Installation Manual
SO/Contract #:	Technician Name:	Date:
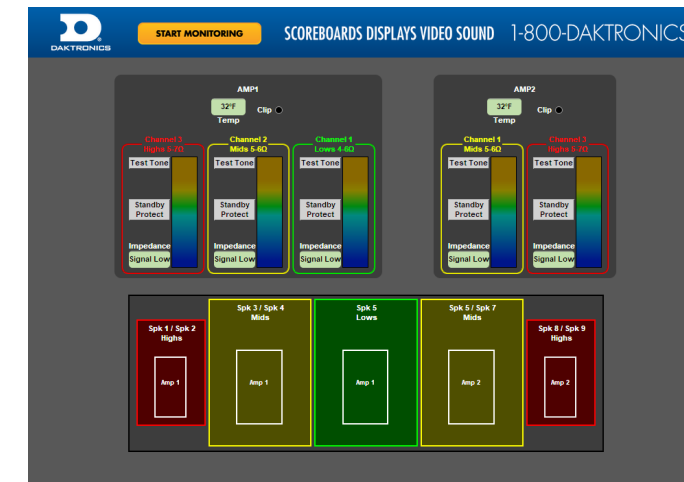
4 & 5. 500HD Monitor
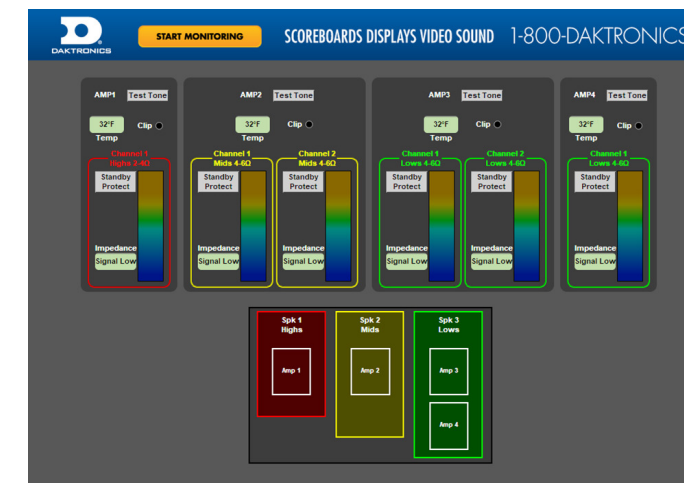
4 & 5. 1500HD Monitor

4 & 5. 2000HD Monitor

DD2738410
Rev 05
08 March 2019

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