

AATCOMM URSAI Model 1-4 IC-Spectra - Motorola Spectra Series Interface

For use in public safety vehicles equipped with Motorola Astro Spectra series mobile radio systems requiring the addition of up to four (4) indoor or outdoor amplified speakers of various types, such that the volume level at each speaker may be individually adjusted independent of volume control setting at the radio control head or dash-mount radio control typically located in the vehicle cab.

Speaker Compatibility:

- o Motorola® HSN 4035C Power Speaker or equivalent
- o Atkinson-Dynamics Industrial outdoor speaker amplifiers or equivalent
- o Any power speaker or speaker/amplifier which accepts a 600 Ohm balanced or unbalanced input with an input level no higher than 6 volts peak-to-peak

Figure 1. (reverse side) illustrates 24" cable pin-out, radio to URSAI 1-4 interface, complete with a standard Spectra DB-25 accessory plug.

Figure 2. illustrates connector pin-out for a Motorola HSN 4035C amplified speaker.

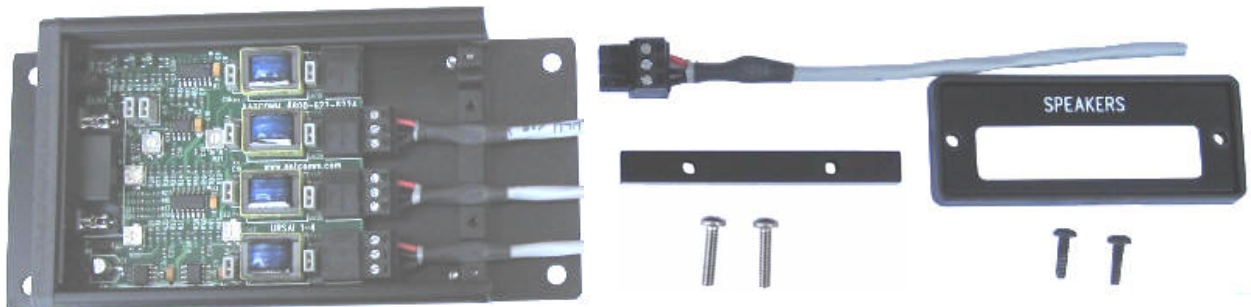
Figure 3. shows level-setting controls and jumper settings for the URSAI 1-4.

Figure 4. illustrates the end-cap of the URSAI 1-4 with DB-9 connector to radio interface and LED status indicators.

Default settings: JU1-JU4, A&B, set for Motorola HSN 4035C compatible power speaker. JU5 set Active High for VHF Astro Spectra series transceivers, JU6 set for internal URSAI 1-4 COR in use - required for all Spectra series radios.



To attach speaker outputs: Remove two (2) Phillips head screws on end-plate labeled "SPEAKERS." Slide housing top cover off from left to right, exposing PCB, output plug-in connectors with screw terminals and cable clamp for up to four cables. See below.



Attach speaker wiring to each of up to four, 3-circuit connector plugs using screw terminals provided. Observe polarity when using Motorola HSN 4035C compatible settings. Optional common ground connection provided.

Please Note: Cable clamp accommodates cable diameters from 0.15 inches to 0.25 inches diameter.



AATCOMM Universal Radio Speaker Amplifier Interface - IC-AP for use with Motorola Astro Spectra Radio

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AAT COMMUNICATIONS SYSTEMS CORPORATION

AATCOMM URSAI 1-4 Interface Cable - Motorola Astro Spectra

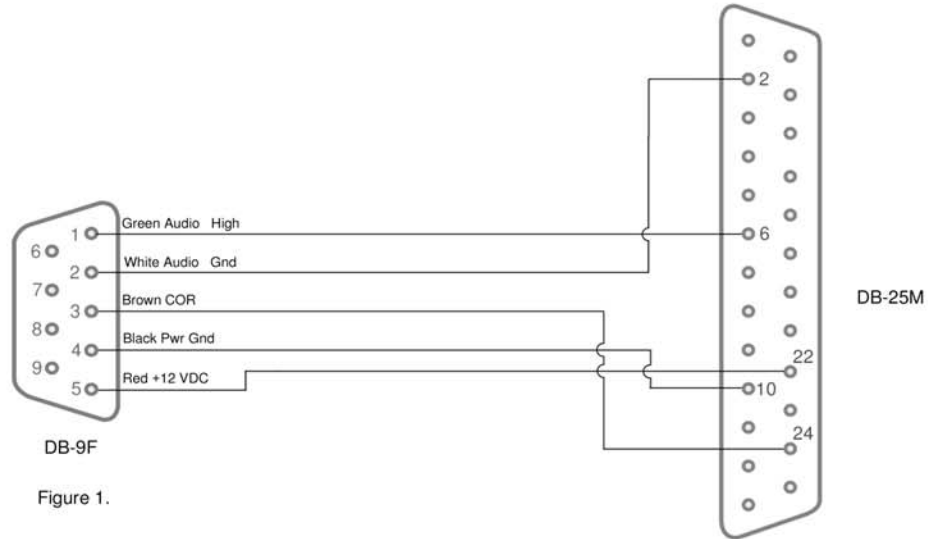


Figure 1.

AATCOMM URSAI 1-4 IC-Astro-Spectra Cable Length 24" end-to-end

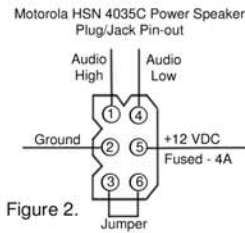


Figure 2.



Figure 4.

DB-9 Connector shown
 Audio gate triggered when COR green LED on
 Power applied when PWR red LED on

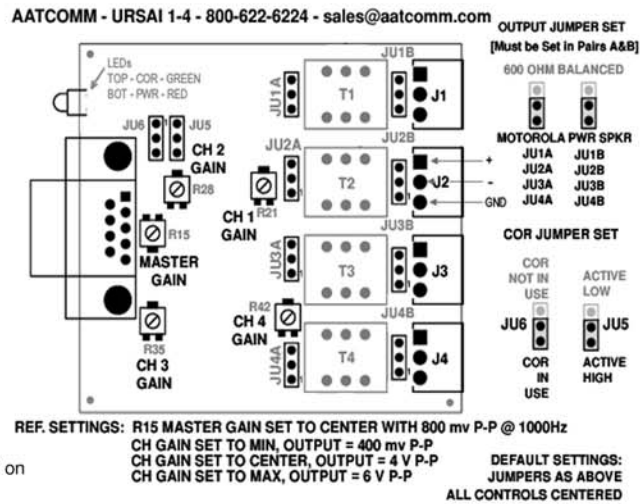


Figure 3.