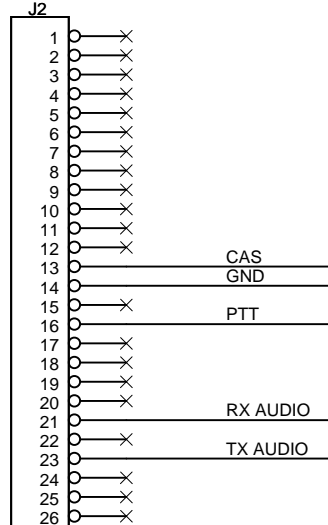


USE A MOTOROLA XTL-5000 WITH AN NHRC CONTROLLER FOR HALF DUPLEX OPERATION

01 = DGND
 02 = BUS +
 03 = BUS -
 04 = RS232 TxD
 05 = RS232 RxD
 06 = USB +
 07 = USB -
 08 = NO CONNECT
 09 = Busy (SB9600)
 10 = RS232 CTS
 11 = RS232 RTS
 12 = USB Power
 13 = Channel Activity (Qualified Rx)
 14 = AGND
 15 = Emergency
 16 = PTT
 20 = Rx Audio Hi (Speaker)
 21 = Rx Filtered Audio
 22 = Monitor
 23 = Tx Audio Hi
 24 = SW B+
 25 = Ignition Sense
 26 = RX audio low (speaker)



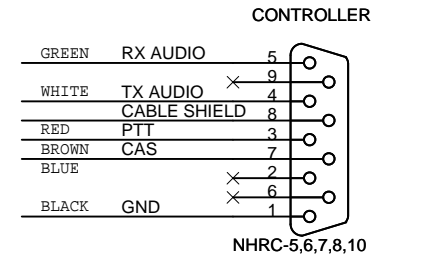
HEADER 25

NOTE: ALL FACTORY WIRING CONNECTIONS MUST REMAIN IN PLACE

Motorola 26-Pin Rear Plug.
 Plug Part Number: HLN6863A
 Pin Part Number: 3980034F01

1 METER 5 COND CABLE

COLORS ARE FOR REF ONLY AND MAY BE DIFFERENT ON YOUR CABLE



DB-9P (PMALE) WITH BACK SHELL

NOTES

Any action that unmutes the speaker (e.g. received audio, alert tones, talk permit tones, etc.) will toggle the Channel Activity pin (13) on the Accessory Connector

Pin (15) must be connected to ground by jumper on accessory cable if emergency is disabled, even if disabled by CPS. If enabled, this line must be grounded via a switch, which is normally closed. The emergency debounce time is programmable via CPS.

Pulling PIN (16) to ground will activate PTT function, activating the AUX_MIC input.

Fixed level (independent of volume level) received audio signal, including alert tones are provided on pin (21). Flat or de-emphasis are programmed by CPS. Output voltage is approximately 100 mVrms per kHz of deviation. The DC offset is 1.4V. NHRC recommends flat audio.

The microphone input signal for pin (23) is independent of the microphone signal on the front accessory connector. The nominal input level is 80mVrms for 60% deviation but can also support 300 mVrms for future APCO accessories. The DC impedance is 660 ohms and the AC impedance is 560 ohms.

NOTICE

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NHRC REPEATER CONTROLLERS		
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Title XTL-5000 to NHRC-5, NHRC-6, NHRC-7, NHRC-10		
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