

GE PHOENIX SX MOBILE RADIO

R. Hogan W4XE 12/10/05

P911 Description

- 1 GROUND (A-)
- 2 PTT (Active LOW)
- 3 MIC LO
- 4 MIC HI
- 5 MIC HI (ALT)
- 6 RESET (Active low)
- 7 CHANNEL SELECT (PULSE 200 ms chn up +1)
- 8 STORE * (some reuse for +12VDC to DTMF MIKE)

P910 Description

- 1 IGNITION SWITCH + (2A Fused) (tie to pin 11)
- 2 RX MUTE (Active LOW) [USE FOR PL OR COS DET ACTIVE HIGH]
- 3 EXT SPKR HI
- 4 FILTERED VOL/SQ HI (muted and pl filtered. Needs deemphasis)
- 5 SPARE (Channel A/B Select)
- 6 GROUND (Heavy GND PWR CABLE)
- 7 EXT SPKR LOW
- 8 GROUND (Use for rx audio ground)
- 9 CG DISABLE (Active LOW) (install switch to gnd outside unit to disable PL decode)
- 10 INTERNAL SPKR HI
- 11 +13.6 VDC POWER INPUT (Heavy PWR Cable A2515A Fused)

Phoenix Power Connector (P910)

The 11 circuit terminal housing: 0.156 for

J910 is Digi-Key P/N WM-2109-ND

Pins for housings are Digi-Key P/N WM2300-ND

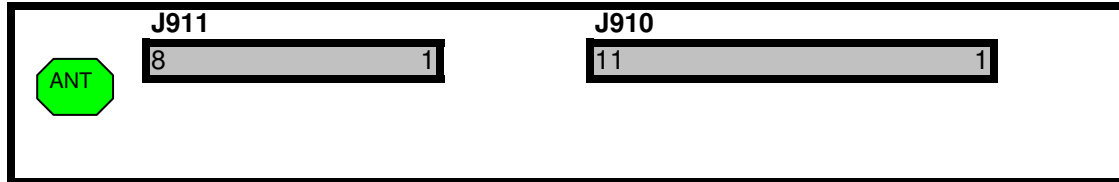
Phoenix Microphone Connector (P911)

The 8 circuit terminal housing: 0.156 for

J911 is Digi-Key P/N WM-2106-ND

Pins for housings are Digi-Key P/N WM2300-ND

GE PHOENIX SX REAR VIEW OF RADIO



Notes:

We usually install a 10K ohm resistor in series with J910-2 RXMUTE when used as a COS active high input to an external controller. Otherwise the signal is loaded down and Squelch action of the radio is affected. If a channel is programmed for PL decode then the RXMUTE will go high only on PL decoded. If the channel is carrier squelch then RXMUTE will go high on carrier detect (in line with BUSY LED on front panel). You can install an external switch to J910-9 to ground. This will bypass a PL decode programmed channel and allow carrier only detect.

If used as a remote base radio, some controllers do not deemphasis the remote base rx audio input. In this case install a 10K ohm resistor in series with the P910-4 before going to the controller. On the controller side of the resistor place a 0.1 uF cap to ground. This will deemphasis the audio. You can adjust the R/C values to tailor the audio to your needs.

The P910-4 audio is not discriminator audio. It is filtered to remove PL tones from received signals. It is muted on no received signal. The signal is a rather low level Pk-Pk.