

CHILTON ANALOG HYBRID AH-1 AH-2

The Chilton AH Analog telephone hybrid is supplied as 1U rack mounted equipment with single or twin channel units.

The telephone hybrid is a two to four wire converter which provides the interface between caller on the telephone line and the input of the mixing desk.

An electronically balanced line input is provided with adjustable gain to phone line "Tx" this is limited at -6dBu which is adjustable.

A floating balanced transformer line output with adjustable gain from phone line "Rx" is provided this can be monitored on a 10 segment LED bar indicator.

A Half Duplex switch is provided which improves the overall side-tone rejection with studio priority. The rear 9 pin port allows remote control of line hold, half duplex, hold indication and ring detect. A telephone can be connected directly to the BT socket. A 4 way BT extension lead is supplied between the "Telecom Line" and the "Tele Line" Input. Option of RJ11 Telephone connector. The audio "Line In" is connected to the mixing

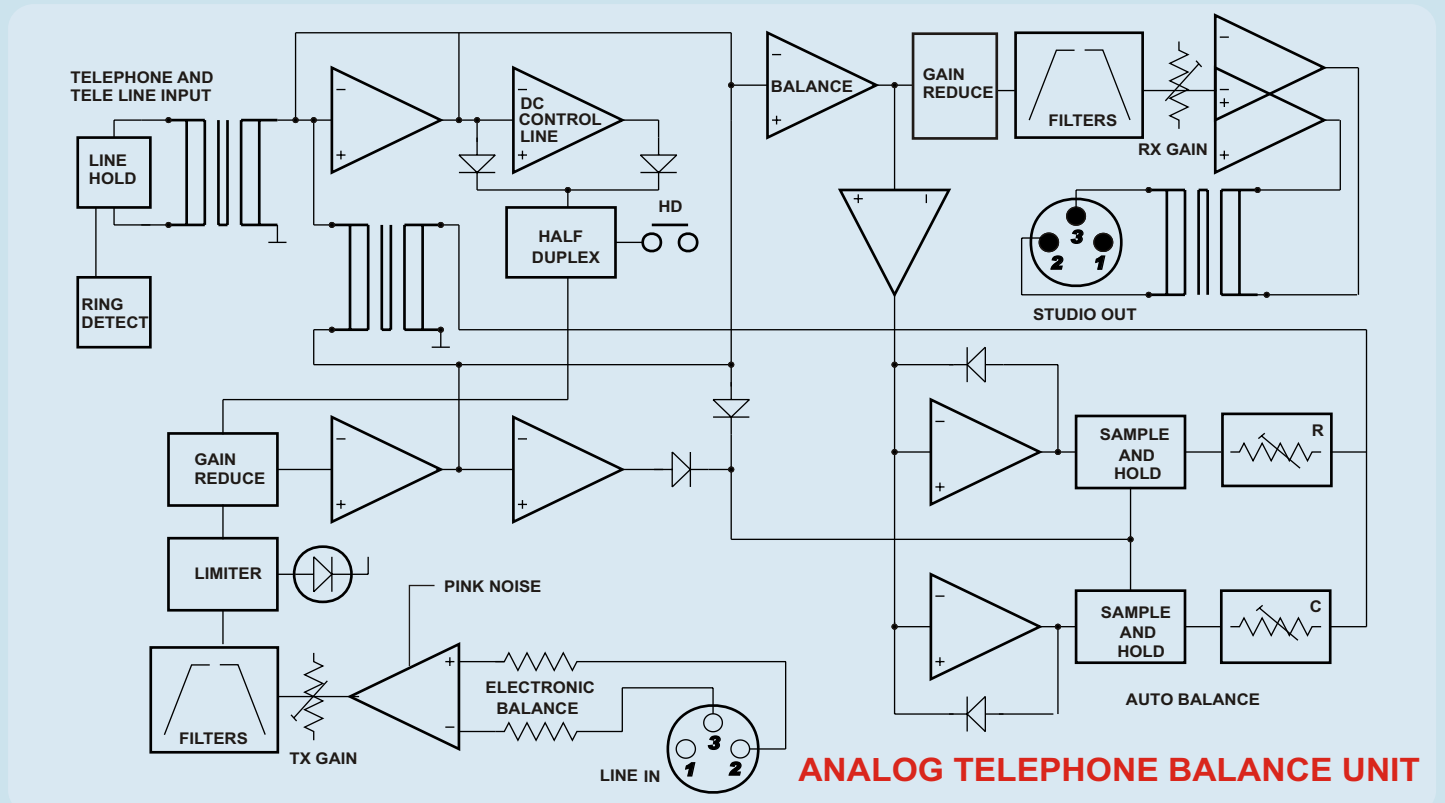
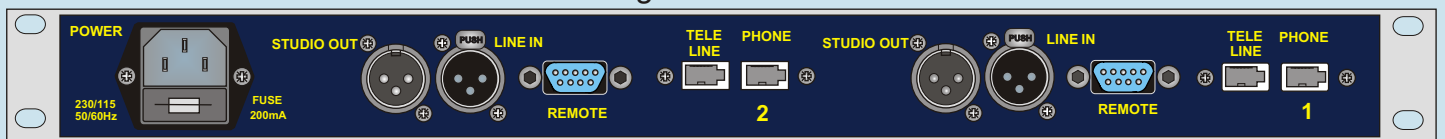
console clean feed or auxiliary output.

The "Studio Out" to the designated mixer input channel.

To adjust the balance, ring out to a user friendly line and adjust the auxiliary output or Tx pre-set for the limit LED to just glow, depress the Bal switch and adjust R an C pre-sets for minimum pink noise on console headphones. Release Bal switch and auto balance will take over. Balance is not disabled during double-talk.

SPECIFICATION

Audio Line in	10k Electronically balanced
Tx Gain to Limit	+10dBu to -15dBu
Tx Limit level	-6dBu adjustable -10 to 0dBu
Bandwidth Tx Rx	250Hz-3k5Hz -3dB Ref:1kHz
Telephone line Z range	400 to 1k2 ohms
Rx LED indicator	+9 to -18dBu in 3dB steps
Rx gain	22dB
Rx distortion -10dBu in	0.1% @ +10dBu
Rejection ratio typically	-10dBu Rx, -6dBu Tx, 30dBu
With Half Duplex	-50dBu. Pink Noise
Power	220-240V or 110-120V AC



ANALOG TELEPHONE BALANCE UNIT