

A10 Audio Modem Assembly 400060-59

The Audio Modem assembly 400060-59 is used in DF2100 Receiver family for conditioning of the received and transmitted FSK signals.

It amplifies and separates the received voice from data.

It also amplifies and combines the voice and data before sending it over the phone line.

The board contains all necessary line drivers and transformers needed to provide a robust 2-3 mile link between the DF2100 receiver and the Remote Control Station.

There are two adjustments on board.

The transmit signal level (adjust R5) should be set to maximum possible in order to provide best signal to noise ratio for the link. Typically it is +/-10V at TP3.

The received signal level (adjust R14) should be set to +/-1V pp at TP6.

The board is powered from +/-15V DC Supply.

The board plugs into DF2100 A10 slot via DB-90 connector.

Revision history:

- 400060-59 original design using leaded components (obsolete)
- 400060-59-1 original design with updated surface mount components (obsolete)
- 400060-59-1A original design with updated surface mount components and added filters to improve audio quality (Feb. 2009)

Note: They all have the same Input/Output pinout and characteristics and are fully compatible with all DF2100 systems.

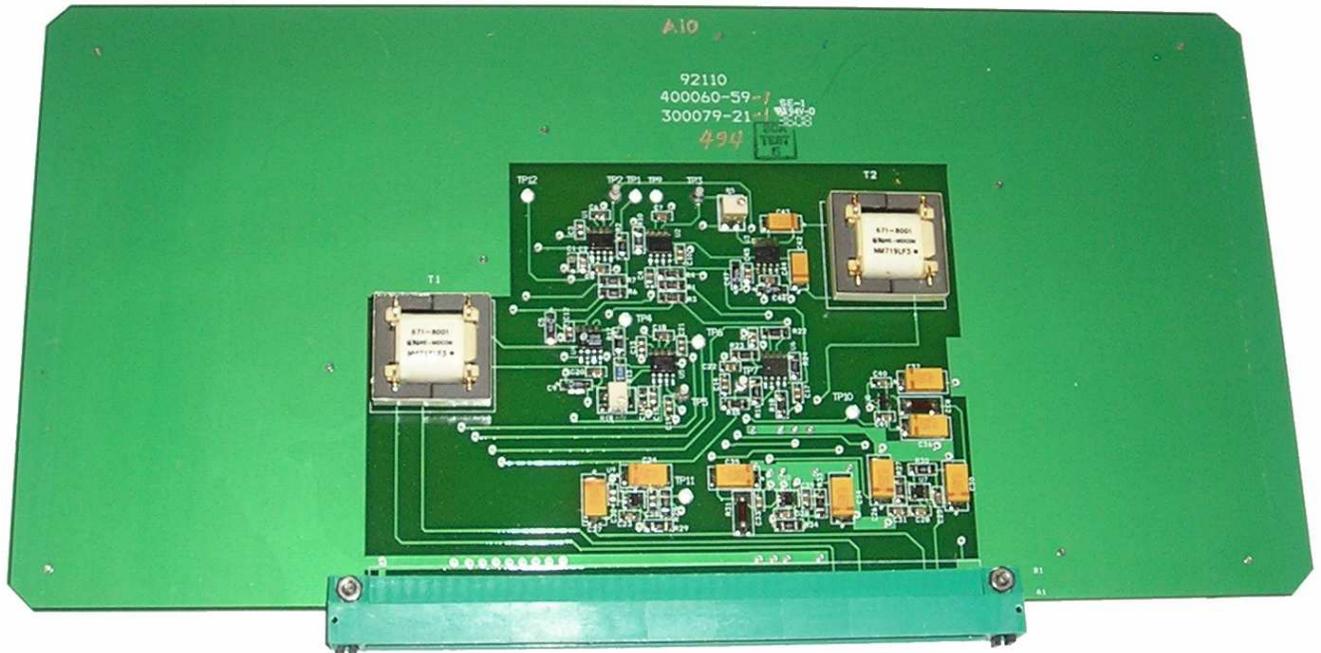


Fig.1 A10 Audio Modem Assembly 400060-59-1