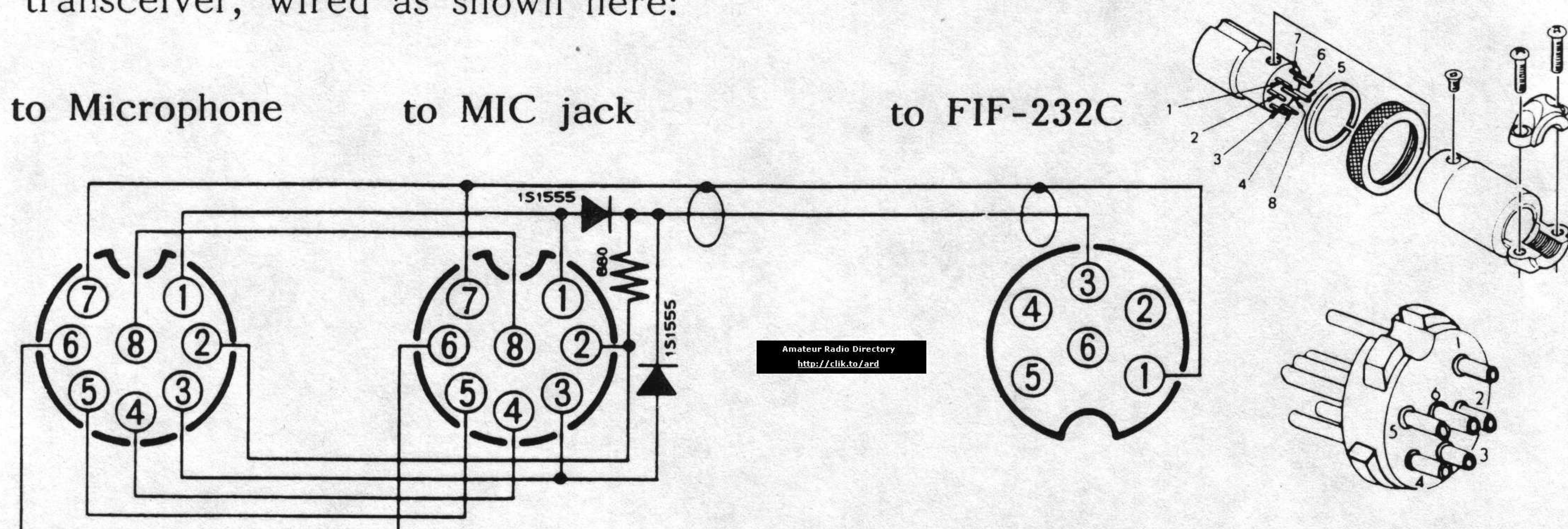


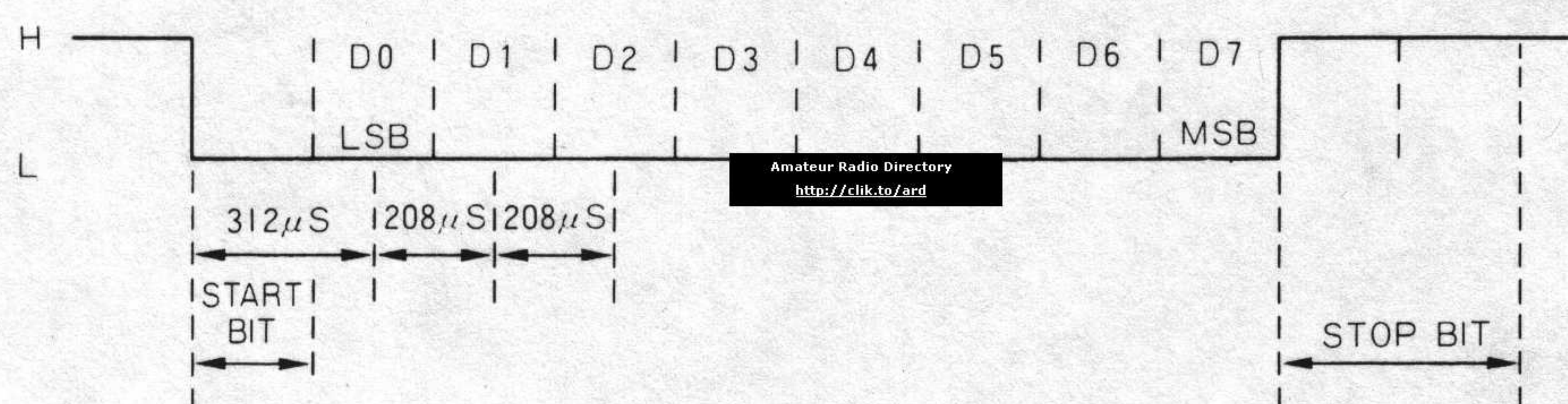
CAT System External Computer Control

The CAT (Computer Aided Transceiver) System in the FT-712RH allows external control of the operating frequency, transmit/receive switching and high/low transmit power selection from an external personal computer. Also, if the optional FTS-12 CTCSS Unit is installed, the CTCSS tone frequency and encode/decode status of the tone squelch system can be selected.

Serial data is passed from pin 2 or pin 3 (TxD) of the computer RS-232C serial port to pins 1 and 3 of the MIC jack on the front panel of the transceiver, wired as shown here:



Data is sent at 4800 bits/sec., and each data byte sent consists of one start bit, 8 data bits, two stop bits and no parity bit:



Data Format for 1 Character

All CAT System data transfers consist of blocks of five bytes as just described, sent with 50 to 200ms between each byte. The last byte to be sent in each block is the instruction opcode, while the first four bytes of each block are arguments: either parameters for that instruction, or dummy values (required to pad the block out to five bytes when fewer are needed by the instruction):

