

TCI-1 Version 4.2 Tuner Control Interface *Parts List*

Schematic ID	Quantity	Supplier	Part Number	Description
R3	1	DigiKey	4.7QBK-ND	4.7 Ohm, 0.25 Watt, 5% Resistor
R10	1	DigiKey	270QBK-ND	270 Ohm, 0.25 Watt, 5% Resistor
R12	1	DigiKey	1.0KQBK-ND	1K, 0.25 Watt, 5% Resistor
R4, R5, R6, R7, R9, R11, R13	7	DigiKey	10KQBK-ND	10K, 0.25 Watt, 5% Resistor
R1, R14	2	DigiKey	33KQBK-ND	33K, 0.25 Watt, 5% Resistor
R8	1	DigiKey	82KQBK-ND	82K, 0.25 Watt, 5% Resistor
Rf	0			Typically 1 Meg if needed for slow starting oscillator (see note)
C9	1	DigiKey	P4841-ND	22pfd, 100V, 5% COG Ceramic Capacitor
C10	1	DigiKey	P4843-ND	33pfd, 100V, 5% COG Ceramic Capacitor
C1, C2, C3, C4, C5, C6	6	DigiKey	P4922-ND	0.01ufd, 50V Monolithic Capacitor
C8	1	DigiKey	P4525-ND	0.1 ufd, 50V Metal Film Capacitor
C7	1	DigiKey	399-1420-ND	22 ufd, 25 Volt, Tantalum Capacitor
L1, L2, L3, L4, L5, L6	6	DigiKey	M7837-ND	100 uhy, 125 mA Inductor, JW Miller
Q1, Q2, Q3, Q4, Q5, Q6	6	DigiKey	ZVN2106A-ND	ZVN2106A or 2N7000, N-Channel Enhancement Mode FET, TO92
U1	1	DigiKey	NJM78L05A-ND	78L05 Regulator IC, 5-Volt, TO92
U2	1	DigiKey	PIC16C505/JW-ND PIC16C505-04i/P-ND	PIC16C505 Micro controller IC, UV erasable PIC16C505 Micro controller IC, One Time Programmable
D1	1	DigiKey	1N4148FS-ND	1N4148 Diode
X1	1	DigiKey	300-8309-1-ND	Citizen Quartz Crystal, 32.000kHz, Surface Mount Device
DS1	1	DigiKey	L20011-ND	Red LED, RT Angle, PC Mount, T-1.75
J2	1	DigiKey	277-1276-ND	Phoenix MPT-0.5/5-2.54 Terminal Block
J3	1	DigiKey	WM2722-ND	Molex 22-10-2021-P Header, 2-pin, 0.1-inch
Shunt	1	DigiKey	929955-06-ND	3M Shorting Jumper. 0.1-inch
SW1	1	Mouser OR DigiKey	1055-TA1220 CKN1059-ND	SPST 2-PIN RT Angle PC Switch, Mountain Switch SPDT RT Angle PC Switch, C&K
U2 Socket	1	DigiKey	A401-ND	14-Pin IC Socket for U2
Icom Connector	1	DigiKey	WM1326-ND	Molex 03-09-2042 Connector Plug Housing, 4-pin (see note)
	4	DigiKey	WM1100-ND	Molex 02-09-2103 Pins for Icom Connector
Alinco Connector	1	DigiKey	WM1224-ND	Molex 03-06-2055 Connector Plug Housing, 5-pin (see note)
	4	DigiKey	WM1000-ND	Molex 02-06-2103 Pins for Alinco Connector
Enclosure	1	Mouser	546-1455C801BK	Hammond 1455C801BK enclosure
Rear panel grommets	2	Mouser	167-211	Keystone Grommet, 5/16-inch mounting hole
Cable	12-inches	Mouser	602-1174C-100	4 conductor, #22 stranded Alpha 1174C cable, 0.19" O.D.
PC Board	1	Express PCB	Special Order	Custom PC board

Note: Rf is typically not needed unless there is a problem with slow startup of the oscillator after sleep mode.

Select either the Icom or the Alinco connector housing. Only 4 pins of the 5-pin Alinco connector are used.