

2P3

Superheterodyne AM Radio DIY Instruction Manual

In mid 1960s, due to a steadily available stock of domestic made transistors, there were a huge DIY wave of transistor radios in China. The big issue for a transistor radio is how to make it look good, the 2P3 transistor radio case was made to fulfill this huge demand.

The 2P3 case is delicate and exquisite, once on the market, it is warmly welcomed. Many people saved money to get one case, and made many different versions of DIY radios ranging from one-transistor regenerative AM radio to six-transistor superheterodyne AM radio. fulfilled their dreams of assembling a DIY radio with beautiful machine made case. However, there were people who bought the 2P3 case but due to various limitations was not able to get all needed components thus unable to finish their project.

Half century went on, many DIY radio hobbyists still have a fond memory of the 2P3 case. When they chatted about DIY radios, 2P3 is always on their center of topic. People who finished their 2P3 project are proud of their achievements and people unable to finish it feel left behind. But today, the 2P3 case is very hard to find, rarely surfaced specimen becomes a collectors' hot grab and fetches a lot of money. Thus, to find one 2P3 case becomes a new dream today.

Responding to many hobbyists' appeals, we recreated the 2P3 case, designed a superheterodyne AM radio circuitry suitable for DIY project, together with all the components as a DIY kit, make it available for both old hobbyists to fulfill their dream, and new DIYers to hone their tinkering skills.



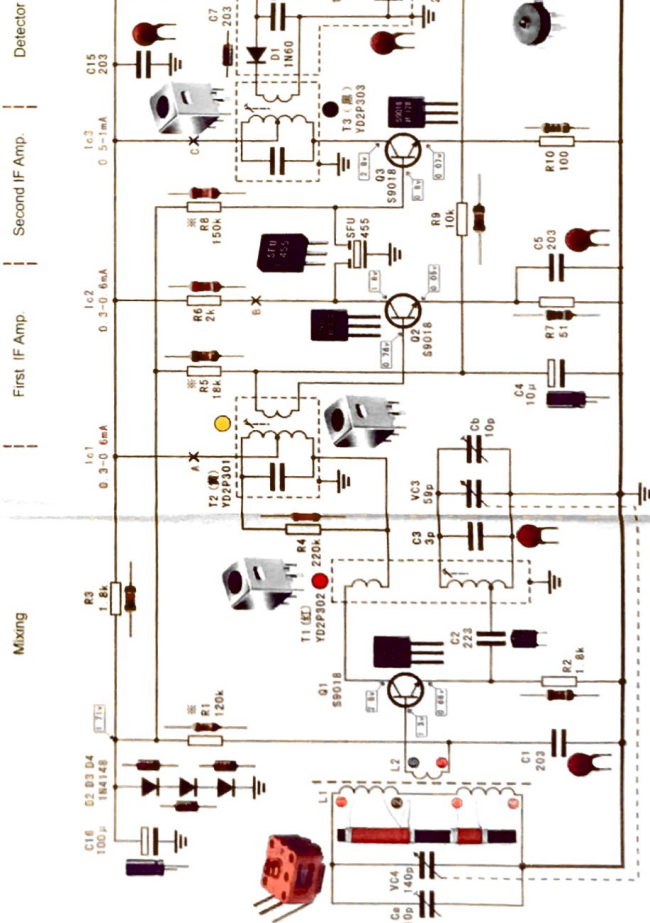
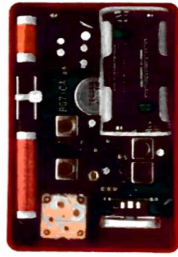
Figure 1: 2P3 Superheterodyne AM Radio (Front)



Figure 2: 2P3 Superheterodyne AM Radio (Back)



Figure 3: 2P3 Superheterodyne AM Radio (Internal)



Qty	Name	Value	Notes
12	1/2" Transducer	Y00000	✓
13	1/2" Transducer	Y00000	✓
14	1/2" Transducer	Y00000	✓
15	1/2" Transducer	Y00000	✓
16	1/2" Transducer	Y00000	✓
17	1/2" Transducer	Y00000	✓
18	1/2" Transducer	Y00000	✓
19	1/2" Transducer	Y00000	✓
20	1/2" Transducer	Y00000	✓
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40	1/2" Transducer	Y00000	✓
41	1/2" Transducer	Y00000	✓
42	1/2" Transducer	Y00000	✓
43	1/2" Transducer	Y00000	✓
44	1/2" Transducer	Y00000	✓
45	1/2" Transducer	Y00000	✓
46	1/2" Transducer	Y00000	✓
47	1/2" Transducer	Y00000	✓
48	1/2" Transducer	Y00000	✓
49	1/2" Transducer	Y00000	✓
50	1/2" Transducer	Y00000	✓

Common Electronics Components and schematic symbols

Form	Name	Symbol	Notes
	Switch		
	Battery		
	Ground		
	Wire		
	Connected wires		
	Empinex Socket		
	Resistor		1.8K and 18K resistors have similar color bandings, don't mix.
	Potentiometer with switch		

Common Electronics Components

	Capacitor	Same value units as resistor
	Potentiometer	Same value units as resistor
	Transistor	There are two types of transistors according to their structure NPN and PNP. We use a 2N3018 in this radio which is a PNP type.
	Integrated Circuit (IC)	IC has many different form factors. The CD74H01 is used in this radio as a logic inverter of 2P3 is just as indicated below.
	Circuit board	
	Model Mark	
	Lead Pins	

Assembling Instructions

- Check components. Divide components by type, cross reference with schematics and Bill of Material. Double check every component type and value is correct. It is advised to test all components before assembly. Many electronic components are available on the internet by various vendors. Testing components before assembly is a good practice.
- Start assembly. We advise to assemble each stage by the following order: Antenna amplifier, Detector, 2nd IF, 1st AF, 2nd AF, 3rd AF, 4th AF, 5th AF, 6th AF, 7th AF, 8th AF, 9th AF, 10th AF, 11th AF, 12th AF, 13th AF, 14th AF, 15th AF, 16th AF, 17th AF, 18th AF, 19th AF, 20th AF, 21st AF, 22nd AF, 23rd AF, 24th AF, 25th AF, 26th AF, 27th AF, 28th AF, 29th AF, 30th AF, 31st AF, 32nd AF, 33rd AF, 34th AF, 35th AF, 36th AF, 37th AF, 38th AF, 39th AF, 40th AF, 41st AF, 42nd AF, 43rd AF, 44th AF, 45th AF, 46th AF, 47th AF, 48th AF, 49th AF, 50th AF, 51st AF, 52nd AF, 53rd AF, 54th AF, 55th AF, 56th AF, 57th AF, 58th AF, 59th AF, 60th AF, 61st AF, 62nd AF, 63rd AF, 64th AF, 65th AF, 66th AF, 67th AF, 68th AF, 69th AF, 70th AF, 71st AF, 72nd AF, 73rd AF, 74th AF, 75th AF, 76th AF, 77th AF, 78th AF, 79th AF, 80th AF, 81st AF, 82nd AF, 83rd AF, 84th AF, 85th AF, 86th AF, 87th AF, 88th AF, 89th AF, 90th AF, 91st AF, 92nd AF, 93rd AF, 94th AF, 95th AF, 96th AF, 97th AF, 98th AF, 99th AF, 100th AF, 101st AF, 102nd AF, 103rd AF, 104th AF, 105th AF, 106th AF, 107th AF, 108th AF, 109th AF, 110th AF, 111th AF, 112th AF, 113th AF, 114th AF, 115th AF, 116th AF, 117th AF, 118th AF, 119th AF, 120th AF, 121st AF, 122nd AF, 123rd AF, 124th AF, 125th AF, 126th AF, 127th AF, 128th AF, 129th AF, 130th AF, 131st AF, 132nd AF, 133rd AF, 134th AF, 135th AF, 136th AF, 137th AF, 138th AF, 139th AF, 140th AF, 141st AF, 142nd AF, 143rd AF, 144th AF, 145th AF, 146th AF, 147th AF, 148th AF, 149th AF, 150th AF, 151st AF, 152nd AF, 153rd AF, 154th AF, 155th AF, 156th AF, 157th AF, 158th AF, 159th AF, 160th AF, 161st AF, 162nd AF, 163rd AF, 164th AF, 165th AF, 166th AF, 167th AF, 168th AF, 169th AF, 170th AF, 171st AF, 172nd AF, 173rd AF, 174th AF, 175th AF, 176th AF, 177th AF, 178th AF, 179th AF, 180th AF, 181st AF, 182nd AF, 183rd AF, 184th AF, 185th AF, 186th AF, 187th AF, 188th AF, 189th AF, 190th AF, 191st AF, 192nd AF, 193rd AF, 194th AF, 195th AF, 196th AF, 197th AF, 198th AF, 199th AF, 200th AF, 201st AF, 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