

CIRCUIT BOARD COMPLEMENT OF TEN TEC TXRs FROM THE TRITON TO THE CORSAIR II

| Model Name Model Number | TRITON 540 | TRITON* 544 | OMNI A 545 | OMNI D** 546 | OMNI C*** 546C | CORSAIR 560 | CORSAIR II 561 | Comments |
|----------------------------|------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-------------------|----------------------------------|
| RF Attenuator | | | 80445 | 80445 | 80445 | see RF Mixer | see RF Mixer | |
| RX Trimmer | Unnumbered Board | Unnumbered Board | 80446 | 80446 | 80710 | | | Fine tuning of input circuit |
| RF Amplifier | 80166 | 80166 | 80460 | 80460 | 80460 | see RF Mixer | see RF Mixer | |
| PTO | ^80277 | ^80277 | ^80277 | ^80277 | ^80277 | 81038 | 81038 | |
| OSC - MIX | ^80288 | ^80349 | 80455 | 80455 | 80711 | ^^^80975 | ^^^80975 | |
| VFO Amplifier | | | 80454 | 80454 | 80454 | | | |
| RX Mixer | | | 80452 | 80452 | 80452 | | | |
| RF Mixer | | | | | | ^^^80987 | ^^^80987 | |
| Noise Blanker | Accessory Model 249 | Accessory Model 249 | Accessory Model 248 | Accessory Model 248 | 80717 | ^^^80977 | ^^^80977 | |
| Pass Band Tuning | | | | | | 80979 | 80979 | |
| Crystal Filter | | | 80256 | 80256 | 80256 | see noise b'er | ^^81252 | |
| IF-AGC | 80279 | 80279 | 80448 | 80448 | 80448 | | | |
| IF-AF | | | | | | ^^^80984 | ^^^80984 | |
| CW Filter | Accessory Model 245 | Accessory Model 245 | 80436 | 80436 | 80436 | see IF-AF | see IF-AF | Post Demodulation |
| Notch Filter | | | 80527 | 80527 | 80527 | see IF-AF | see IF-AF | Post Demodulation |
| Audio-Sidetone | | | 80447 | 80447 | 80447 | | | Audio Amplifier |
| Audio Amplifier | 80274 | 80274 | | | | | | |
| SSB Generator | 80282 | 80282 | 80449 | 80449 | 80449 | | | |
| Double Sideband Generator | | | | | | 80980 | 80980 | |
| TX-RX Mixer | 80287 | 80287 | | | | | | |
| TX Mixer | | | 80453 | 80453 | 80453 | see RF Mixer | see RF Mixer | |
| Bandpass Filter | 80291 | 80291 | 80459 | 80459 | 80712 | 80976 | 80976 | |
| Low Level Driver | 80285 | 80285 | 80444 | 80444 | 80743 | 81037 | 81037 | |
| Final Amplifier | 80276 | 80276 | 80491 | 80491 | 80491 | 80565 | 80565 | RF Power Amp |
| Low Pass Filter | 80307 | 80307 | 80466 | 80466 | 80709 | 80969 | 80969 | |
| SWR-ALC | 80284 | 80284 | | | | | | |
| SWR-TR | | | 80450 | 80450 | 80450 | | | |
| SWR Board | | | | | | 80970 | 80970 | |
| OT-TR | 80281 | 80281 | 80281 | 80281 | 80281 | | | Offset Tuning |
| VOX | | | 80451 | 80451 | 80451 | | 81249 | |
| VOX-Processor | | | | | | 80981 | | |
| Audio Processor | | | | | | | 81255 | |
| Bandswitch | | 80365 | | | | | | first two digits of freq display |
| (Counter) Logic Board | | 80348 | | 80441 | 80441 | 80973 | ^^81246 | |
| Time Base-Preamp | | 80346 | | | | 80974 | | |
| Display | | 80347 | | 80440 | 80440 | 80547 | 81248 | |
| Display Driver | | | | | | | 81247 | |
| Preset-Amp | | | | 80465 | 80465 | | | |
| Timebase | | | | 80442 | 80442 | | | |

| | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|---------|---------|
| Control Board | 80280 | 80280 | 80464 | 80464 | 80708 | ^^80978 | ^^80978 |
| LED Display | | | | | | 80983 | 80983 |
| Switch Board | | | | | | 80971 | |
| Meter Switch | | | | | | 80972 | |
| Mode Switch | | | | | | 90982 | 81256 |
| Crystal Calibrator | 80308 | | 80437 | | | | |

The table shows the complement of the circuit boards in the various model TXRs. TT gave each board an identifying number. This enables the tracking of the changes to the TXRs through the various models - although this does not work so well with the Corsairs. (See ^^ ^^.)

Source of Information: Ten Tec Owner's Manuals - Model 540, Model 544, Omni A - Omni D Original Series, Omni A - Omni D Series B, Omni C Model 546C, Omni (appears to be the same as the preceding manual), Corsair, Corsair II.

* The main difference between the 540 and the 544 is that the 540 had a mechanical frequency readout and the 544 a digital readout.

** The main difference between the Omni A and the Omni D is that the Omni A had a mechanical frequency readout and the Omni D had a digital frequency readout. I cannot discern the difference between the Original Series and the Series B. The board complement is the same and the manuals seem to read the same. (Closer scrutiny may be necessary.) Images of the Omni A and the Omni D in the Original Series and Series B manuals both show receivers with a six position selectivity switch. I have seen an image (on Rigpix) of an Omni D with a 4 position selectivity switch. What the explanation is I don't know. Given the way some of the TT manuals have been poorly compiled, it would not surprise me if the images in one of the manuals were not correct.

*** I have two manuals which both seem to deal with the 546C but have different title pages (viz., Omni C Model 546C, Omni). I can't discern any difference between the manuals. (Again, more scrutiny may be required.)

^ There appears to be inconsistencies with the way the VFO system is named in the manuals. There are discrepancies between the index, the written description, the schematics and the inter board wiring diagramme. I have chosen to use the nominations in the schematics.

^^ The written description of the Control Board and the Digital Readout circuitry in the manual for the Corsair II has been taken from the Corsair manual - there appears to be circuit differences between the control board in each model even though they have the same identifying number - a complete schemozzle.