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Giovanni Bruzzi, Italy brought this article. The "Text button" is the 3rd after the scissors. Well, after writing that: The whole can be seen at least with Mozilla Firefox - but I let it be to be able to analyze the text codes one day. There are two problems with it: For the excessive distortion there are two reasons: The voltage at the outputs can be corrected in two ways. The easier way is to connect a kohm resistor from each output pins 7 and 8 to ground. These capacitors can be found next to the larger shielded box on the RF board, on the side close to the loudspeaker. After installing these resistors the suppression of the unwanted sideband improved in my receiver from 14 dB to dB, and I think the distortion is reduced too. The correct way to do this would be to install two omitted components: These will have similar effect, perhaps result in slightly better unwanted sideband suppression in SSB mode without additional balancing as described later. These components are shown on the factory test circuits of the chip and also in the article on synchronous detection by Mike Gruber in QEX, Sept. This reduces also the hum in synch mode, when operating off the mains. The better way could be building a separate better 3. This could improve also the operation of the synch detector with NiCads, which seem to have a bit too low voltage now. For switching the detector to selectable sideband synchronous mode the pin 3 of connector C on the RF board must be grounded and the wire from the pin 4 of connector B must be disconnected. This can be done with a switch with two groups of contacts. The ground connection can be done via 1 kohm resistor, this avoids problems in case of false connection, and also reduces extra interference from the processor. The detector circuit uses the phasing method to select one sideband, and therefore the phase noise of local oscillators creates clearly audible background about 20 dB below audio. Also, the shielded oscillators exhibit strong microphone effect, resulting in audio feedback at higher volume. Some hints for opening: Ordinary Phillips does not fit well, and the screws are quite tight for the first few times to unscrew. The back cover should be lifted at the bottom side, there are plastic hooks at the top side. The RF board can be removed completely after unscrewing the 5 screws and unplugging all connectors. There MAY be an extra capacitor soldered between the RF board and the shield of the processor unit, in the vicinity of the antenna socket. It must be then unsoldered too. The board is manufactured using surface mount components, so certain caution and fine tipped soldering iron is necessary. Care must be taken also when soldering the connector wires. These wires go directly to the microprocessor pins, so static and other voltage differences between the tools and the radio should be avoided. The simplest way is to disconnect the radio from everything during soldering. The procedure should be undertaken only if you are sure that your detector is defective too. This can be determined by viewing the suppressed sideband signal of about Hz with an oscilloscope connected to line output, it must be severely distorted. The unwanted sideband rejection can be further improved, but for this the service manual, a signal source signal generator or a transmitter with clean carrier and an AC voltage meter or oscilloscope is needed. The procedure is balancing the summing resistors after the audio phase shift circuits. The results on my receiver are following the frequency of the best suppression depends on actual component values in the phase shifters and is probably different for other units:

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Many are really too big to be considered portables and actually are better as large table top sets, but they all operate on batteries or AC power and have built-in antennas and handles so they can be carried around and taken outdoors and so are technically portable. As I read the book and followed the history of this ambitious line of radios, the pride of German engineering which went into them became evident. Part of the high cost was the fact that they were imported from Germany, but they were intrinsically more complex, more highly engineered instruments and were still a luxury item even in Germany. I began exchanging daily messages with these Grundig Radio experts and discovered some amazing things. Well I surmised this was the typical old radio syndrome that anyone who collects old radios is amply aware of—dirty switches and controls which cause intermittent, erratic operation—maybe a bad connection or corrosion causing problems—or possibly some bad electrolytic caps. When the radio arrived I was immediately struck by its beauty. You can move it from room to room fairly easily, but my guess is that most users will find a semi-permanent spot for it. Interestingly, Grundig had the habit of making its models available in many variant versions. The dial lighting could now be locked on permanently if you desired, an external antenna trimmer was added to peak reception in that mode, and a small circuit enhancement to aid stability was added creating at least a measurable improvement. Want to be more confused? Both models were actually built in wooden cases. Go figure—but at least each model boasts sound some say is warmer and richer due to the wooden box—and they may be right. What Makes It So Special? I was initially struck by the obvious detail, quality and downright mechanical complexity of this radio. Through a clever slip-clutch drive system, the main tuning knob only moves the FM dial pointer when the FM button is depressed. And these are huge illuminated analog dial scales—6 inches tall. This drum is connected to the visible rotating drum which displays the shortwave bands 2 to 9 in a separate vertical window to the left of the main dial area—again, they are just about 6 inches tall. So, for example, if you select SW2—the 49 meter band, you can tune between 5. This means you can tell exactly what frequency you are tuned to and, as far as I know, is a first among analog-tuned portables. I was absolutely blown away by the superb accuracy of the analog tuning on this Grundig. In many cases you can tune in a frequency with the radio turned off and when you hit the power, there it is. This wonderful and unique system was retained throughout the Satellit analog line. And some of the more superstitious still believe no digital receiver can match an ultimate analog tuner for a low background noise floor. It is as different on the inside as it is on the outside. Previous abuse had left it in need of some key parts which I had no source for. This is one of the prices of complexity—portions of the disassembly for repair are a nightmare on this radio. Also the service manuals are a far cry from what I am used to. The German edition of course presents some problems for me. Even the English version I found was a very poor copy, and both omit many key areas of information generally available in service manuals, leaving much more to guesswork and familiarity with the model only someone who worked for Grundig at the time is likely to have. The rest of us are left to figure things out on our own and to learn through experience, and even to fabricate a dial alignment template to align the dials when the radio is disassembled. That is a big frustration to someone like me who traditionally buys radios in need of help so I can get them at a good price and then enjoys fixing them up and restoring them. The seller graciously took it back with no problems. The Teakwood toned cabinet was set off by ample black plastic and chrome and those huge colorful dials with bright illumination are aesthetically gorgeous. The radio did need the routine control and contact cleaning. It was almost useless as received, even though the seller had described it as working perfectly. On this one, though, a simple control cleaning and some miscellaneous mechanical adjustments brought the radio right back to life. The signals were all very listenable—fades seemed less bothersome—it just sounded full and rich. I can see why people love this sound and it can be seductive—for me it is a bit bloated in the mid-bass compared with other radios which also offer a bit more high end clarity. But how was its shortwave reception? I compared it side by side with my best shortwave portables. I very much enjoyed tuning around with the old Grundig too. I found that by staying

within the spread bands I could find most of what was on the air quickly, but I could also revert to the continuous mode and scan outside of the bands as easily as within them. I also was amazed at the analog dial accuracy on shortwave of this radio after I had aligned it at the top and bottom of every shortwave band and in both modes the dial calibration was exact. That is something I truly appreciate in an analog radio. The also has excellent AGC characteristics which helps to make fading signals more listenable than on many other radios. It also has a bit of a roll-off in the higher frequencies on AM and SW, and if you advance the treble control to compensate for this you get a bit of a peak in the midrange. Nevertheless the sound lacks a bit of crispness I hear on many other radios. I can understand the romantic nature of this sound, in some ways like a scaled-down jukebox, and sometimes it can be very pleasant, but it is a bit less accurate than it could be. It tends to enhance shortwave listening however, especially with poor quality signals, but I note that Grundig changed this sound characteristic on their following models, in favor of a more traditional audio characteristic. I have always found it difficult to choose a favorite radio because every radio has its own strengths and weaknesses. It also has several modern advancements which can really improve reception, especially with an external antenna, which is the way I use that radio. As for serviceability of the Grundig, I think an analogy to a sports car is appropriate—it may require more care and feeding in exchange for cutting edge performance in some areas. But what radio is?

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Welcome to my corner of the world! Glad you dropped by. Browse around and discover a collection of QSL cards from international broadcasters, old and new. Read an article or two about radios and the hobby of radio listening. It is one of the last German-engineered radios by Grundig assembled in Portugal. My particular model appears to be one of the first sets manufactured in It does not feature the ROM chip for pre-set stations which were introduced in the Professional model after , nor does it include the three lamps over the LCD which were featured in the late models. The problem according to a Grundig Satellite owner who modified it: The situation can be considerably improved by connecting a k ohm resistor from each output pins 7 and 8 to ground. These capacitors can be found next to the larger shielded box on the RF board, on the side close to the loudspeaker. After installing these resistors suppression of the unwanted sideband improved in my receiver from 14 dB to dB, and I think the distortion is reduced too. Ordinary Phillips does not fit well, and the screws are quite tight for the first few times to unscrew. The back cover should be lifted at the bottom side, there are plastic hooks at the top side. The RF board can be removed completely after unscrewing the 5 screws and unplugging all connectors. There MAY be an extra capacitor soldered between the RF board and the shield of the processor unit, in the vicinity of the antenna socket. It must be then unsoldered too. The board is manufactured using surface mount components, so certain caution and fine tipped soldering iron is necessary. This can be determined by viewing the suppressed sideband signal of about Hz with an oscilloscope connected to line output, it must be severely distorted. Another symptom is bad suppression of the unwanted sideband. At frequencies between 50 and Hz there is another reason for the distortion of the beat signal: The detector can be switched to selectable sideband synchronous mode also, but here rather strong phase noise of local oscillators creates clearly audible background about 20 dB below audio. Also, the shielded oscillators exhibit strong microphone effect, resulting in audio feedback at higher volume. This resistor is useful only for avoiding extra interference from processor, also to avoid shorts in case of errors. For receiving normal SSB transmissions this connection should be broken. The unwanted sideband rejection can be further improved, but for this the service manual, a signal source signal generator or a transmitter with clean carrier and an AC voltage meter or oscilloscope is needed. The procedure is balancing the summing resistors after the audio phase shift circuits. The best suppression value says also something about the distortion. While the Grundig pulled in the station at higher decibels, along with a good deal of modulation splatter, the Grundig with its Sync Demodulator was able to filter out much of the clutter and produce a cleaner sound. Still, it was quite an impressive feat for a radio more than two decades old. I suspect many of the East and West European stations that left the short-wave bands last year could quite easily have been heard with this radio. Above all, this marvellous radio does what Grundig is famously noted for doing. To appreciate stereo quality on FM, suitably designed headphones are required.

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