

**Professional
repair service
Yaesu
Kenwood, Parts,
Manuals, mods,
INRAD Filters
Garant-funk**

Main Menu

- [Adi](#)
- [Alinco](#)
- [AOR](#)
- [Bosch](#)
- [Drake](#)
- [Icom](#)
- [Kenwood](#)
- [Motorola](#)
- [Radio Shack](#)
- [Ramsey](#)
- [Regency](#)
- [Standard](#)
- [Storno](#)
- [Uniden](#)
- [Yaesu](#)
- [TNC](#)
- [Kantronics](#)
- [Other](#)

FT1000MP receiver noise reduction



Contact author:
Kirby, K7EC

Print 

Here is a copy of the orig Yaesu FT1000MP service bulletin about the "IMD" fix which they put out after I told them about how to fix the noise problem on the original FT1000D. IMD is part of the problem, but the main part of the fix is to reduce the reverse flowing electrons in the switching diode by using a PIN diode with an intrinsic layer between the "P" and "N" layers.

This reduces the reverse electron flow by a factor of > 1000. The reverse flowing electrons in the original standard switching diodes are amplified (by approx 120 db) by the RF and IF and Audio stages and manifest themselves as NOISE in the receiver!! So putting the pins in place of the standard switching diodes really does 2 things... reduces noise as explained above AND reduces intermod on strong signals.

You will note that the signals sound cleaner after you do the pin diode mod. Yaesu already used PINs(1SV196)(surface mount devices) on the leading edge of the front end bandpass filters, so there is not much to be gained by replacing them with the better HP5082-3081 diodes.

I also replace the switching diodes around the various RF amps and the IPO switch to eliminate that source of noise. SO.. the diodes to replace on the RF/IF board are:

Bandpass switching diodes (14):

D1004
D1009
D1010
D1015
D1019
D1026
D1030
D1036
D1040
D1044
D1047
D1049
D1054
D1057

RF AMP / IPO SWITCH diodes (8):

D1001, D1002 IPO SWITCH
D1006, D1014 Low Band Preamp
D1032, D1037 Mid band Preamp
D1041, D1043 High Band Preamp

I think you will note a big reduction in internally generated noise and the signals will also sound cleaner after you do the mod.

Yaesu Menu

- [Manuals](#)
- [Pictures](#)
- [4pinmic](#)
- [8pinmic](#)
- [misc](#)
- [fc-30](#)
- [fl-110](#)
- [fl-2100](#)
- [fl-2500](#)
- [fl-7000](#)
- [frg-7](#)
- [frg-100](#)
- [frg-7700](#)
- [frg-9600](#)
- [ft-7](#)
- [ft-10](#)
- [ft-11](#)
- [ft-23](#)
- [ft-26](#)
- [ft-27](#)
- [ft-33](#)
- [ft-41](#)
- [ft-50](#)
- [ft-51](#)
- [ft-60](#)
- [ft-70](#)
- [ft-77](#)
- [ft-73](#)
- [ft-76](#)
- [ft-90](#)
- [ft-100](#)
- [ft-101](#)
- [ft-102](#)
- [ft-107](#)
- [ft-209](#)

TECHNICAL BULLETIN

Yaesu U.S.A - Amateur Products Division - Technical Support

File No.:	TB-9643	Date:	11-05-96
Model:	FT-1000MP	Serial No. Range:	problem units

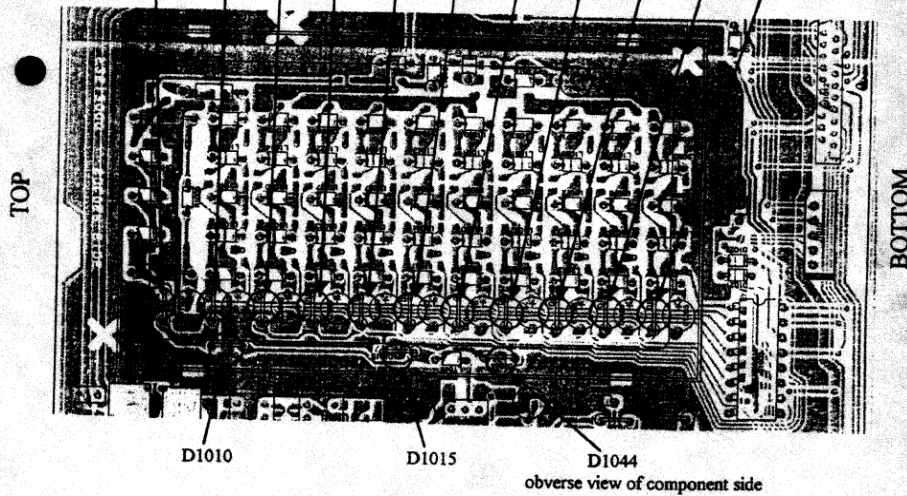
Problem: IMD problem

Expected Results of Modification: Improved IMD due to low band problem.

Component Value Changes: RF UNIT			
Part Location No.	From	To	New Part No.
D1004, 1009, 1010, D1015, 1019, 1026, D1030, 1036, 1040, D1044, 1047, 1049, D1054, 1057	1S83RE	1SV196-T1	
	G2050007	G2070412	

Parts Layout

D1004 D1009 D1019 D1026 D1030 D1036 D1040 D1047 D1049 D1054 D1057



YAESU U.S.A., 17210 Edwards Road, Cerritos CA 90703 (310) 404-2700 Fax (310) 404-4828
E.C

73 es good DX,

Kirby, W7SV

Thanks to Lutz, W4/DH7LK for this basic procedure for [dis-assembling the FT1000MP](#) to do the pin diode mod.

This article has been read 4707 times.



No messages about this article.



Write new message about this article.

Articles for Yaesu 'FT-1000MP'

- [ft-211](#)
- [ft-212](#)
- [ft-221](#)
- [ft-225](#)
- [ft-227](#)
- [ft-230](#)
- [ft-290](#)
- [ft-301](#)
- [ft-411](#)
- [ft-415](#)
- [ft-416](#)
- [ft-470](#)
- [ft-480](#)
- [ft-530](#)
- [ft-600](#)
- [ft-650](#)
- [ft-690](#)
- [ft-707](#)
- [ft-708](#)
- [ft-711](#)
- [ft-712](#)
- [ft-726](#)
- [ft-727](#)
- [ft-730](#)
- [ft-736](#)
- [ft-747](#)
- [ft-757](#)
- [ft-767](#)
- [ft-780](#)
- [ft-790](#)
- [ft-811](#)
- [ft-815](#)
- [ft-816](#)
- [ft-817](#)
- [ft-840](#)
- [ft-847](#)
- [ft-850](#)
- [ft-857](#)
- [ft-890](#)
- [ft-897](#)
- [ft-900](#)
- [ft-901](#)

Uploaded	Description
06-07-2004	FT1000MP Connecting Elektret-Condenser-Mike to the rig.
28-06-2004	FT1000 Cooling-fan continues run
12-04-2004	FT1000MP receiver noise reduction. (Selected article)
15-12-2002	Yaesu FT1000MP Antenna Tuner Mod
15-12-2002	FT-1000MP Automatic Band Selection Interface
01-12-2002	Yaesu 1000mp intermittent
13-07-2001	Keyclicks FT-1000MP
22-08-1998	How is the FT-1000 MP modified to transmit in general coverage?
19-07-1998	FT-1000MP RX-Clarifier Check












See forum messages list for FT-1000MP.



Write new message about FT-1000MP.

Have you any tricks, modifications or constructions for homebrewed equipment that not are on mods.dk, please send the information to mods.dk. If you prefer to be anonymous write it in the message.

- [ft-902](#)
- [ft-911](#)
- [ft-912](#)
- [ft-919](#)
- [ft-920](#)
- [ft-980](#)
- [ft-990](#)
- [ft-1000](#)
- [ft-1000fld](#)
- [ft-1000mpv](#)
- [ft-1000mp](#)
- [ft-1500](#)
- [ft-2200](#)
- [ft-2400](#)
- [ft-2500](#)
- [ft-2600](#)
- [ft-2700](#)
- [ft-2800](#)
- [ft-3000](#)
- [ft-4700](#)
- [ft-5100](#)
- [ft-5200](#)
- [ft-7100](#)
- [ft-7200](#)
- [ft-7400](#)
- [ft-7800](#)
- [ft-8000](#)
- [ft-8100](#)
- [ft-8500](#)
- [ft-8800](#)
- [ft-8900](#)
- [fth-7010](#)
- [gc-1000](#)
- [md100a8x](#)
- [mh-15](#)
- [mh-27](#)
- [mh-29a2b](#)
- [mh-48](#)
- [nc-29](#)
- [vl-1000](#)
- [vr-500](#)
- [vr-5000](#)

-  vx-1r
-  vx-2e
-  vx-2r
-  vx-5r
-  vx-7r
-  vx-110
-  vx-150
-  vxa-100
-  vxa-700

© Copyright mods.dk 1996 - 2004