
TECHNICAL NOTE TN-1072
T2000 - Obsolescence of the
MRF1946A Final PA Transistor for the T20XX-
4XX-FXX
 21st August 2005

Applicability

This Technical Note applies only to the T20XX-4XX-FXX.

1. Introduction

Due to the obsolescence of the MRF1946a final PA transistor, the SD1275 final PA transistor is being introduced into the T2000 product range as a replacement where appropriate. The first change is to the T20XX-4XX-FXX. With this change to the SD1275 the Tx frequency range of the radio will change from 175MHz-235MHz to 175MHz-208MHz. The Rx frequency range remains at 175MHz-235MHz.

2. Information

What Is Changing?

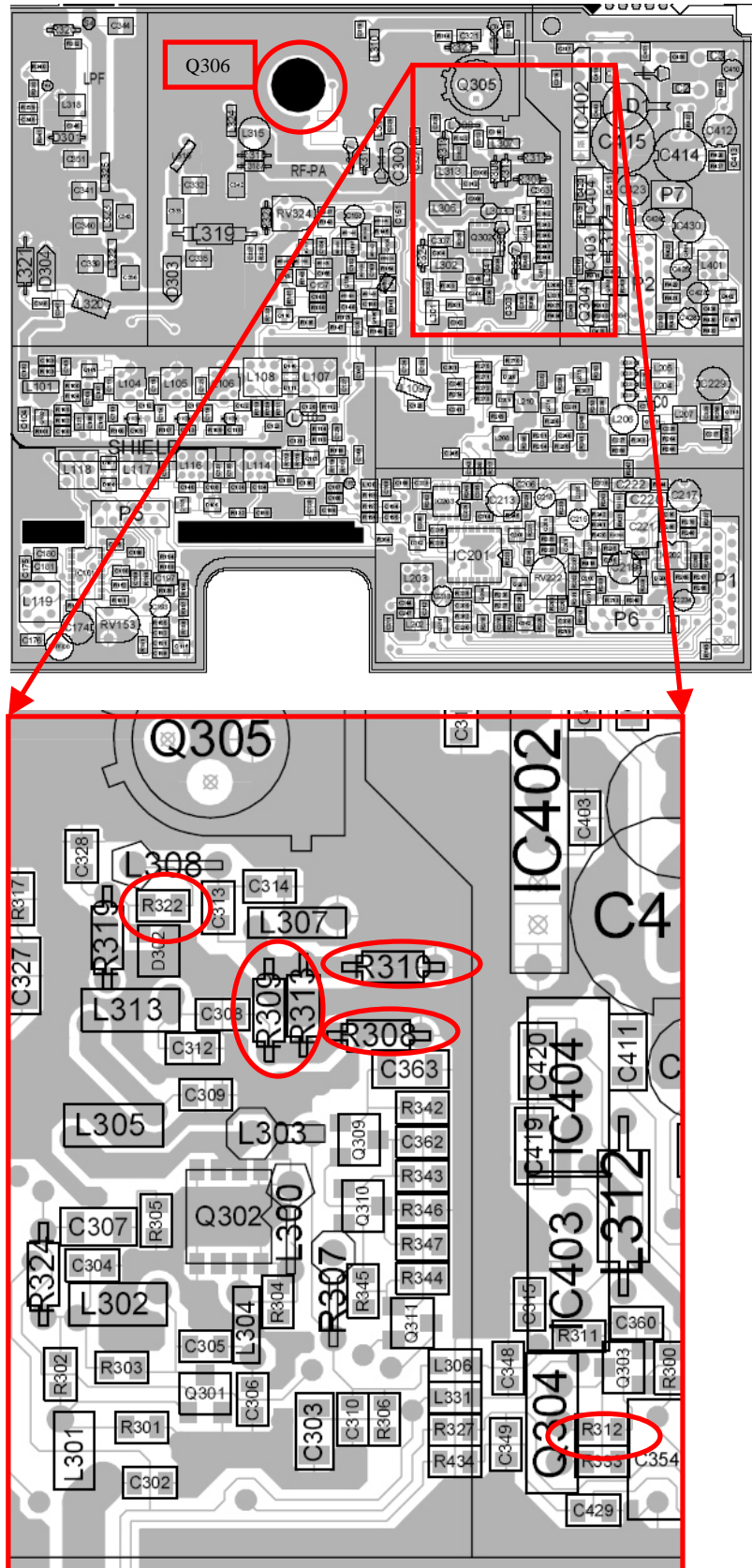
The following components are changing or will need to be changed if the Final PA is replaced with an SD1275

Changes to X2R400 to use SD1275 (as used in X2R401):		
Component	From	To
Q306	000-00032-90 MRF1946A	000-00012-75 SD1275
C329	015-02220-06 22p GRM42	015-02270-06 27p GRM42
R308, R310	030-53820-20 820R	030-53270-20 270R
R309, R313	030-52100-20 10R	030-52390-20 39R
R312	036-13390-10 390R	036-13270-00 270R
R315	036-12470-00 47R	036-12180-00 18R
R322	036-12220-00 22R	036-11680-10 6R8
R700B, R700C	Not Placed	036-10000-00 0E

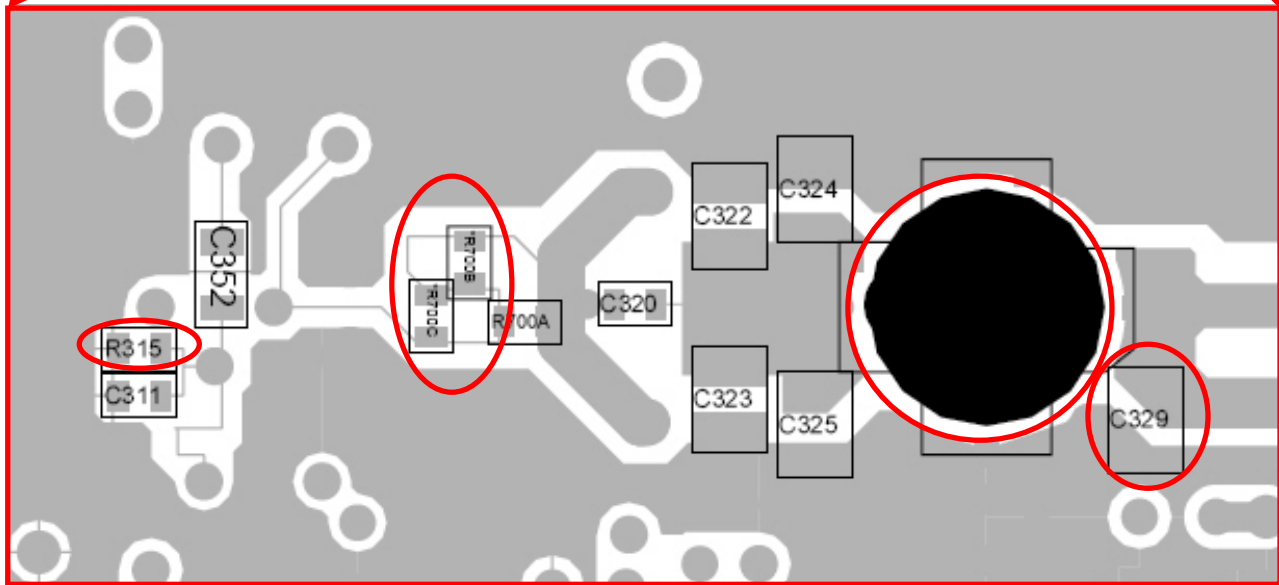
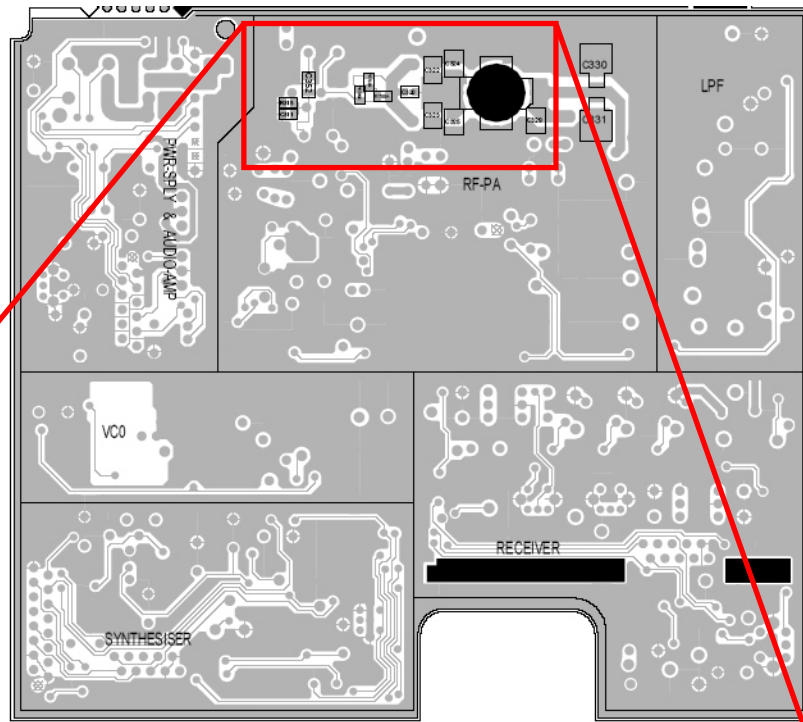
See diagrams on the next two pages for component locations.

The first serial number using the SD1275 is **17340692**.

**Topside RF
View**



**Bottom side
RF View**



Compliance Issues No compliance issues although CSO's will need to note the change to the top of the Tx range (**208MHz**, down from 235MHz).

CSO Instruction CSO's – Please inform all technical staff, and dealers of these changes.

3. Issuing Authority

Name and Position of Issuing Officer Paul Anderson
Technical Support Engineer

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