
TECHNICAL NOTE TN-1179
T2000 - Obsolescence of the
TDA1020 Audio Amplifier
26th May 2006

Applicability

This Technical Note applies to the complete T2000 product range.

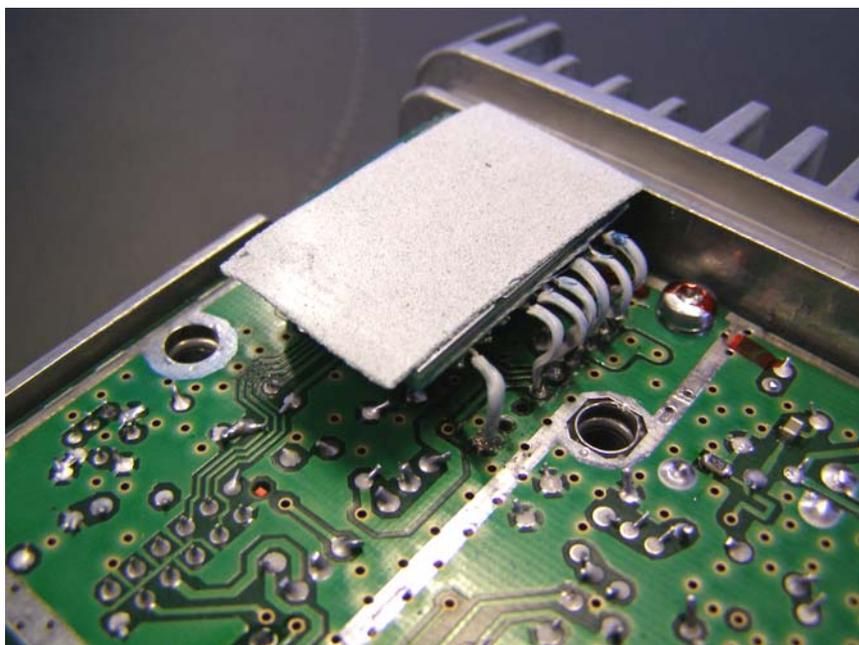
1. Introduction

Due to the obsolescence of the TDA1020 audio amplifier, the **TDA1519** audio amplifier has been introduced by way of a daughter board fitted between the RF PCB and the bottom cover.

2. Information

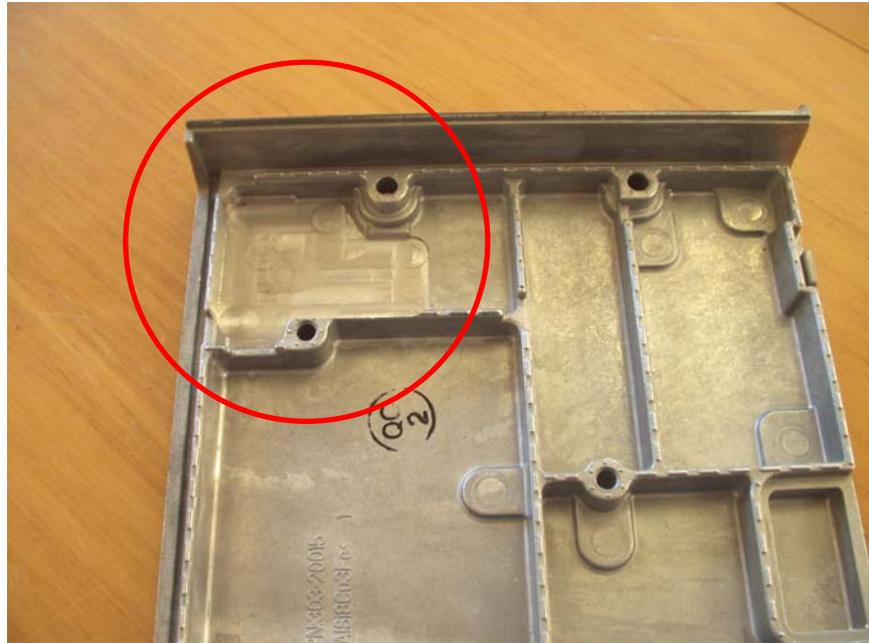
The TDA1519 audio amplifier daughter board (**T2000-ATDA**) is a direct “drop in” replacement for the TDA1020 (IC402). Simply remove the TDA1020, and solder in the wires attached to the daughter board. The only difference is that the daughter board is fitted between the RF PCB and the Bottom Cover (Refer Fig 1). A foam pad (IPN 369-02054-10) is placed between the daughter board and the PCB to prevent the vibration of the PCB and a Gap Pad (IPN 369-01049-00) is placed between the Bottom Cover and the daughter board. This Gap pad acts as an electrical insulator and helps with heat sinking. Both of the pads are supplied with the T2000-ATDA kit.

Fig' 1



One other change that is necessary is that the bottom cover needs to be milled (see Fig' 2). This means that if a TDA1020 is being replaced by a TDA1519 then the bottom cover is very likely to need replacing (IPN of milled bottom cover = 303-23187-00). Once existing stock has been modified all T2000s will use the milled bottom cover.

Fig' 2



Note: If the bottom cover of a radio already containing the TDA1519 daughter board is removed Technical Support strongly recommends that the Gap Pad (369-01049-00) be replaced. The reason being that the Gap Pad will stick to the bottom cover and attempts to remove it will most likely damage the pad. When the bottom cover is refitted, the daughter board may also not be in the same position. This may cause a short and/or reduce the heat sinking ability of the pad.

The TDA1519 daughter board will be fitted into T2000 radios from serial number **XXXXXXXX** (this will be updated as soon as Technical Support are notified of the first serial number).

Compliance Issues

None

CSO Instruction

CSO's – Please inform all technical staff, and dealers of this change.

3. Issuing Authority

Name and Position of Issuing Officer

Paul Anderson
Technical Support Engineer

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Associate

Document History

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