

Service Note		
Product	Description:	Service note no.
<b>G-Force</b>	<b>Modifications to Main board, PC13002-2</b>	<b>720 10 T030</b>

**IMPORTANT:**

This document describes the modifications made on the G-Force Main PCB, ver. PC13002-2. The modifications are made from factory on all units with serial no. 1400200 or higher. Modifications should only be carried out by authorized technicians.

Figure 0 shows where the modifications are made on the PCB.

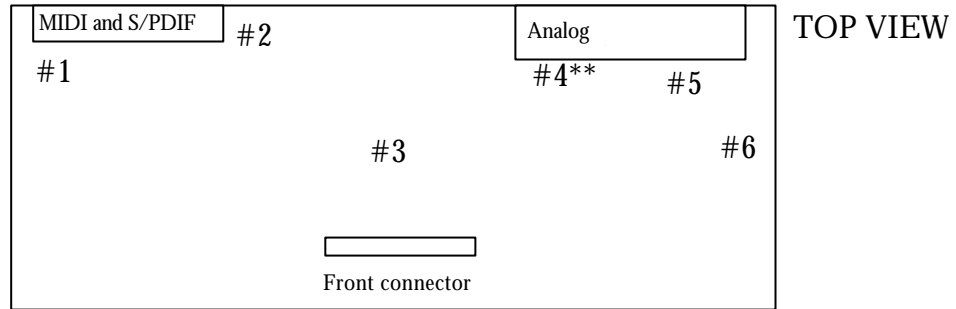


Figure 0

\*\* Modification 4 is made on the bottom side of the PCB.

**Modification 1 (for further information refer to page 9 in main schematics) :**

An additional capacitor (C216) is mounted between R52 and C34 on PCB top as in figure 1.

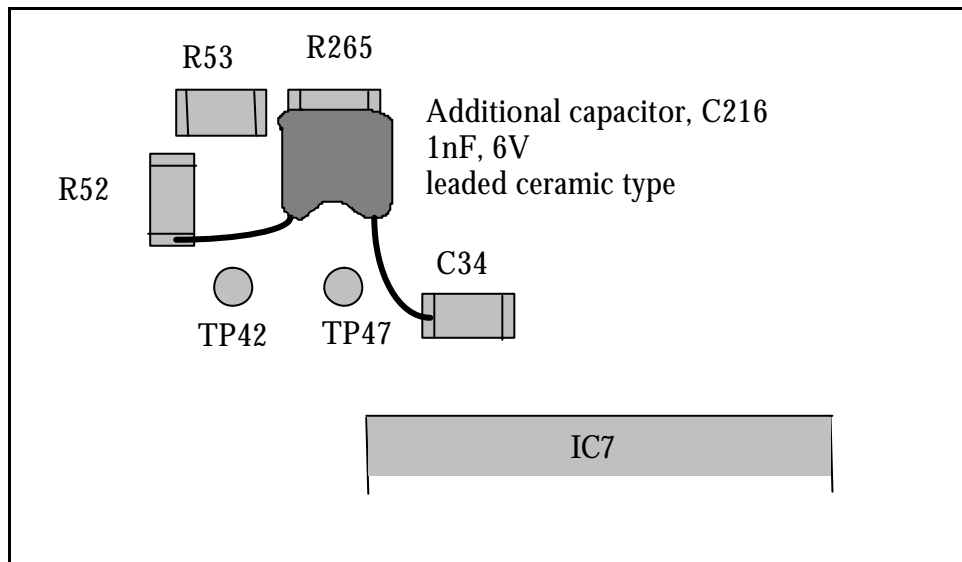


Figure 1

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**Modification 2 (for further information refer to page 4 in main schematics) :**

R282 is not mounted. R282 is short circuited instead. An additional wire (W1) is mounted between R282 and IC46, pin 5. IC46, pin 6 and pin 7 are short circuited. Everything is made on PCB top as showed in figure 2.

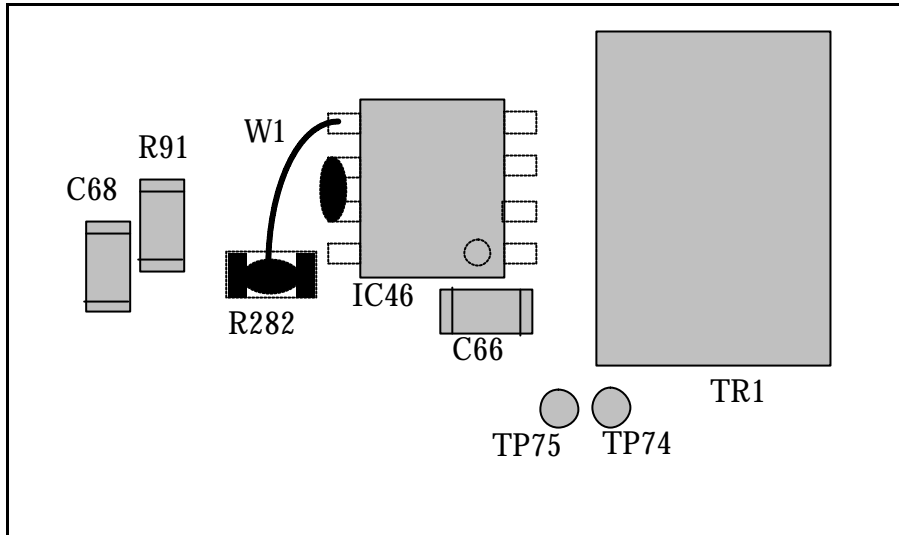
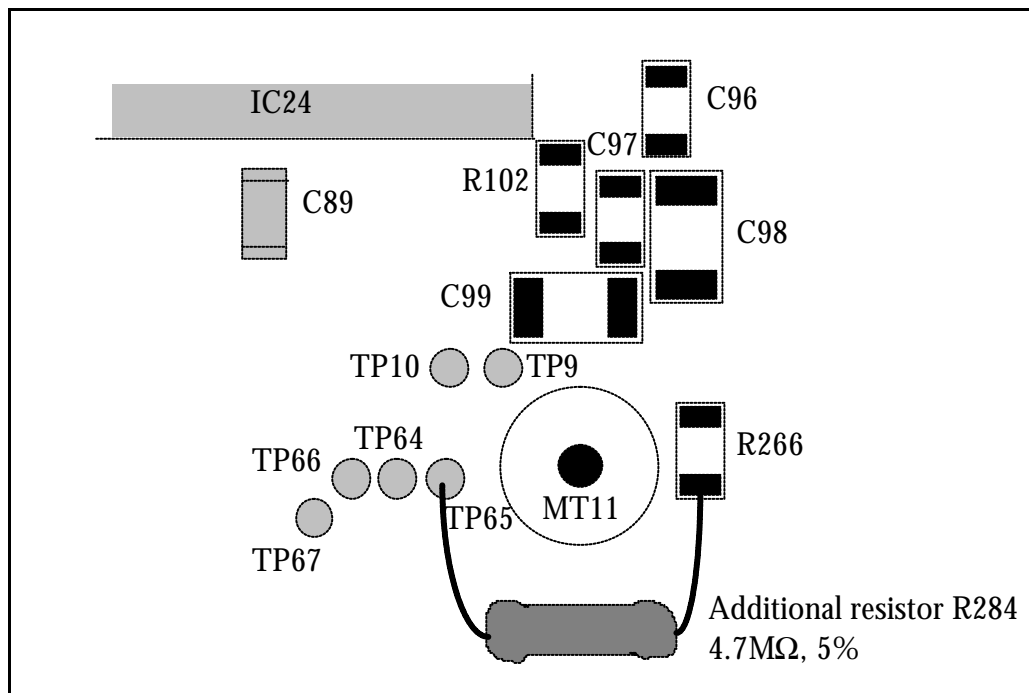


Figure 2

**Modification 3 (for further information refer to page 7 in main schematics) :**

An additional resistor (R284) is mounted on PCB top between R266, which is not mounted, and TP65. It is showed in figure 3.



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Figure 3

**Modification 4 (for further information refer to page 13 in main schematics) :**

Two additional transil's (D17 and D18) are mounted on PCB bottom under the analog output jacks as shown in figure 4.

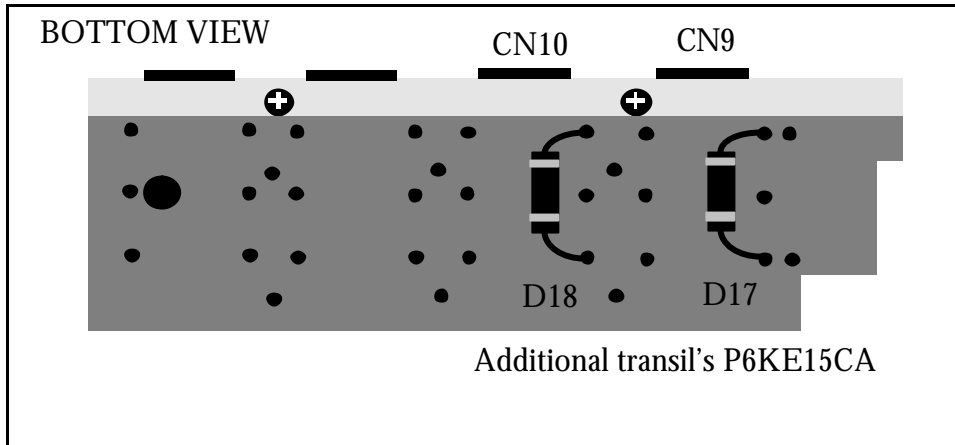


Figure 4

**Modification 5 (for further information refer to page 13 in main schematics) :**

Two additional wires (W2 and W3) are mounted by each analog input jack connecting the jack ring to jack shell. Shown in figure 5.

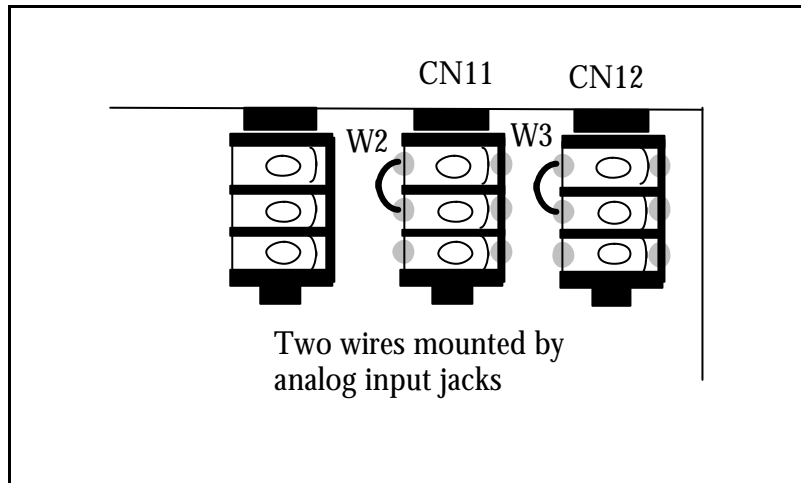


Figure 5

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**Modification 6 (this modification makes no changes in schematics) :**

C192 is removed for a moment and the pad under C192 is removed

Then C192 is mounted again and a wire (W4) from C192 (negative pole) to RL2, pin 9 is mounted as shown in figure 6.

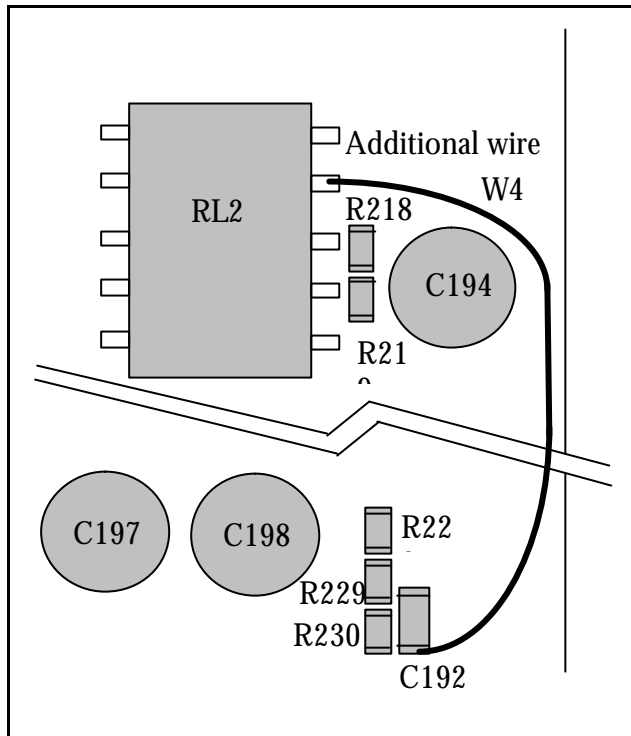


Figure 6

**New / removed components:**

**Removed components :**

Resistor, R282, 1K $\Omega$

Modification 2

**New components :**

Cap, C216, 100nF, 6V, leaded ceramic type, Tccode: 201610012

Modification 1

Wire, W1, 1cm

Modification 2

Resistor, R284, 4.7M $\Omega$ , 5%, 0.4W, leaded, Tccode: 101747011

Modification 3

Transil, D17, P6KE15CA

Modification 4

Transil, D18, P6KE15CA

Modification 4

Wire, W2, 2cm

Modification 5

Wire, W3, 2cm

Modification 5

Wire, Isolated, W4, 6cm

Modification 6