



**California Institute of Technology
Massachusetts Institute of Technology**

DCN No. E021115-00-C

Document Change Notice (DCN)

Sheet 1 of 4

DOCUMENT No. (DOC-REV-GP.ID)	TITLE	NEW REV
D000347 -B	Gain Slider Problem Fix	B1
D990694 -00		A1
D000086 -02		A3

CHANGE DESCRIPTION (FROM/TO):

Mode Cleaner Servo (D000347 -B)

- (1). Cut the trace on connector P1 pins 9B and 10B
- (2). Connect U_add1 regulator pin1 and the one side of the C_add1(1uF) capacitor to the test point TP26
- (3). Connect U_add1 regulator pin3 and the one side of the C_add2 (1uF) capacitor to the test point TP29
- (4). Connect U_add1 regulator pin2 to the ground.
- (5). After the changes on the board mark the front panel as Rev B1.

LSC Whitening Filter (D990694-00)

- (1). Cut the trace on connector P1 pins 9B and 10B
- (2). Connect U_add1 regulator pin1 and the one side of the C_add1(1uF) capacitor to the test point TP13.
- (3). Connect U_add1 regulator pin3 and the one side of the C_add2 (1uF) capacitor to the test point TP12.
- (4). Connect U_add1 regulator pin2 to the ground.
- (5). After the changes on the board mark the front panel as Rev A1.

REASON FOR CHANGE: Gain value changes were occurring due to improper voltage reference for the ADCs.

ACTION: Incorporate Change Attach DCN to Drawings Other Action (specify):

DISPOSITION OF HARDWARE (IDENTIFY SERIAL NUMBERS)	DCN DISTRIBUTION															
<input type="checkbox"/> No hardware was affected (record change only):	<table> <tr> <td>Barish</td> <td>Coles</td> <td>Coyne</td> </tr> <tr> <td>Lazzarini</td> <td>Lindquist</td> <td>Sanders</td> </tr> <tr> <td>Shoemaker</td> <td>Stapfer</td> <td>Tyler</td> </tr> <tr> <td>Weiss</td> <td>Whitcomb</td> <td>Matherny</td> </tr> <tr> <td>Raab</td> <td></td> <td></td> </tr> </table>	Barish	Coles	Coyne	Lazzarini	Lindquist	Sanders	Shoemaker	Stapfer	Tyler	Weiss	Whitcomb	Matherny	Raab		
Barish		Coles	Coyne													
Lazzarini		Lindquist	Sanders													
Shoemaker		Stapfer	Tyler													
Weiss		Whitcomb	Matherny													
Raab																
<input checked="" type="checkbox"/> List S/Ns which comply already: S/N 103, 104, 105, 106, 108, 109																
<input type="checkbox"/> List S/Ns to be reworked/scrapped:																
<input checked="" type="checkbox"/> List S/N's to be built with this change: ALL																
<input checked="" type="checkbox"/> List S/Ns to be retested per this change: ALL																
<input type="checkbox"/>																

SAFETY, COST, SCHEDULE, REQUIREMENTS IMPACT? -X- NO YES (If YES, enter CR (CCB) or TCP (TRB) #)

APPROVALS:	DATE	OTHER APPROVALS (SPECIFY)	DATE
ORIGINATOR: Mohana Mageswaran	12-12-02		
TASK LEADER: Rich Abbott	12-12-02		
GROUP LEADER: Dennis Coyne			
DCC RELEASE:			



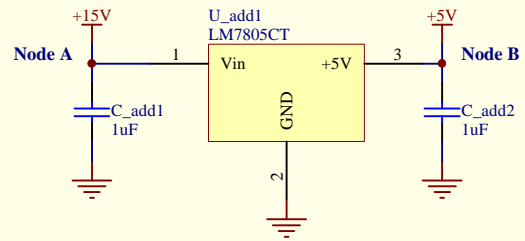
Document Change Notice (DCN)

CHANGE DESCRIPTION (FROM/TO):

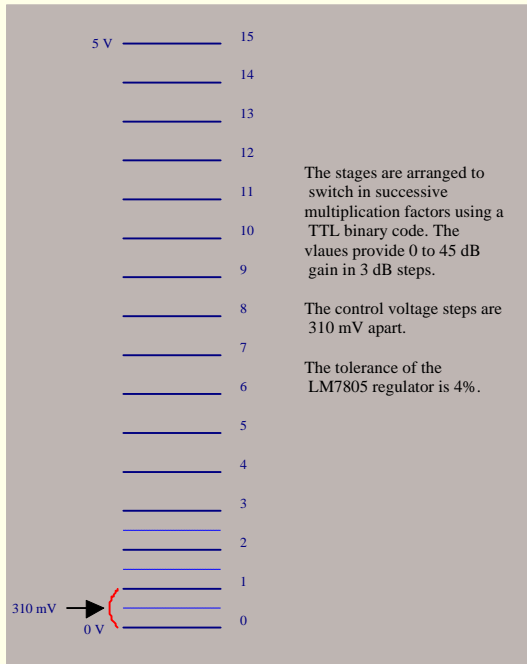
Common Mode Servo (D000086-02)

- (1). Cut the trace on connector P1 pins 9B and 10B
- (2). Connect U_add1 regulator pin1 and the one side of the C_add1(1uF) capacitor to the testpoint TP2
- (3). Connect U_add1 regulator pin3 and the one side of the C_add2 (1uF) capacitor to the testpoint TP6
- (4). Connect U_add1 regulator pin2 to the ground.
- (5). After the changes on the board mark the front panel as Rev A3.

Note: Please see the attached schematic



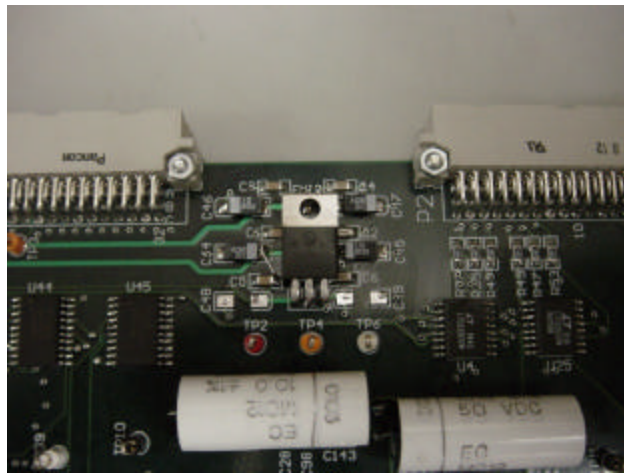
Note 1



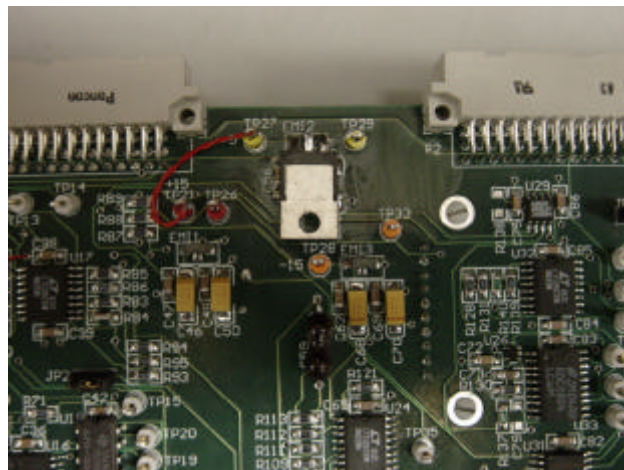
Note 2

Mode Cleaner Servo 5V supply current is 34 mA
 Common Mode Servo 5V supply current is 50 mA
 LSC Whitening Board 5V supply current is 80 mA

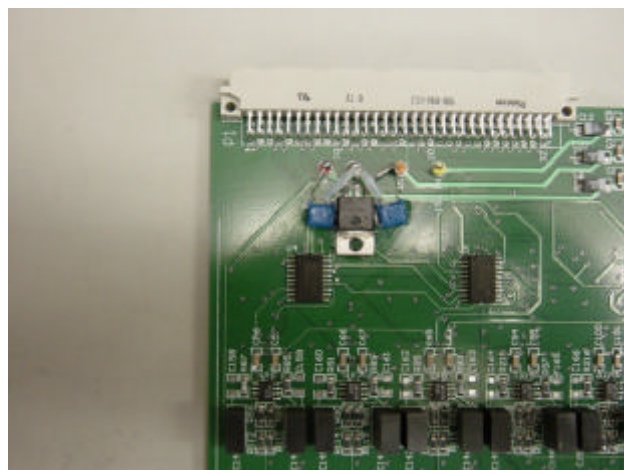
Title		
Voltage regulation for the Gain Sliders		
Size	Number	Revision
A		
Date:	11-Dec-2002	Sheet of
File:	D:\MyFiles\fixes\regulator1.Sch	Drawn By:



Common Mode Servo (D000086)



Mode Cleaner Servo Board (D000347)



LSC Whitening Filter (D990694)