



California Institute of Technology
Massachusetts Institute of Technology

Document Change Notice (DCN)

DCN No. E050199-00-C

Sheet 1 of 2

DOCUMENT No. (DOC-REV-GP.ID)	TITLE	NEW REV
D020241	Intensity Stabilization Servo	D2

CHANGE DESCRIPTION (FROM/TO):

- Changed the following from tbd to omit:
 C62, R53, C11, R25, C177, C145, C168, R179, R149, C189, C186, R253, C175, C179, C198, R273, R8, R9, R19, C20, C30, L1, C54, R40, C58, R44, C231, C236, R51, C51, C6, R1, C1, R45, C170, R227, C148, C169, R182, C112, R39, C57, R140, C116, C115, R118, C86, C100, C118, C217, C210, R299, C207, C222, C215, R103, C113, C78, C85, C188, C205, C114, R104, R92, C92, C77, R70, R177, R84, C91, C73, R63, C70, R78, C97
- R26 changed to 0 Ohm from "0 ohm (499)"
- C107 changed to 27pF
- R74 changed to 1k
- R182 changed from "not installed (or 0 ohm)" to omit
- R128 changed from "not installed (or 0 ohm)" to omit
- C202 changed from tbd to 27pF
- C109 changed from tbd to 68Pf
- C83 changed from tbd to 27pF

REASON FOR CHANGE: Remove the abiguity of "tbd" components listed on schematic. Component value changes implement op amp frequency compensation and provide a stable configuration.

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 border="0"> <tr> <td>Barish</td> <td>Zucker</td> <td>Coyne</td> </tr> <tr> <td>Fritschel</td> <td>Wooley</td> <td>Abbott</td> </tr> <tr> <td>Weiss</td> <td>Whitcomb</td> <td>McCarthy</td> </tr> <tr> <td>Raab</td> <td>B. Abbott</td> <td>Etzel</td> </tr> <tr> <td>Heefner</td> <td></td> <td></td> </tr> </table>	Barish	Zucker	Coyne	Fritschel	Wooley	Abbott	Weiss	Whitcomb	McCarthy	Raab	B. Abbott	Etzel	Heefner		
Barish		Zucker	Coyne													
Fritschel		Wooley	Abbott													
Weiss		Whitcomb	McCarthy													
Raab		B. Abbott	Etzel													
Heefner																
<input type="checkbox"/> List S/Ns which comply already:																
<input type="checkbox"/> List S/Ns to be reworked/scrapped:																
<input type="checkbox"/> List S/N's to be built with this change: Any greater than S/N 115																
<input type="checkbox"/> List S/Ns to be retested per this change: 115																
<input type="checkbox"/>																

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

APPROVALS:	DATE	OTHER APPROVALS (SPECIFY)	DATE
ORIGINATOR: Todd Etzel	7/29/05		
TASK LEADER:			
GROUP LEADER:			
DCC RELEASE:			



Document Change Notice (DCN)

CHANGE DESCRIPTION (FROM/TO):

10. R85 changed from tbd to 1k
11. C82 changed from 1uF to omit
12. C93 changed from tbd to 68pF
13. R91 changed from tbd to 1k
14. C89 changed from tbd to 68pF
15. Change U6 from THS4151 to THS 4131 to reduce noise.
16. Change C27 from 27 pF to 15 pF for higher slew rate and bandwidth
17. Change C47 from 47 pF to 15 pF for higher slew rate and bandwidth
18. Change C21 from 68 pF to 27 pF for higher slew rate and bandwidth
19. Change R16 from 2K to 402 for increased servo gain
20. Change R56 from 15K to 16.5K for accurate voltage division (10:1 is now the division ratio)
21. Change R217 and R251 from 3.32K to 30.1 for DAQ gain increase
22. Change R178 and R266 from 30.1K to 3.01K for DAQ gain increase
23. Change C144 from "omit" to 1 nF for high frequency noise reduction associated with DAQ gain increase.

This is an initial documentation release for this part. Revision D01, while built and used, does not have available documentation.