

Kjeller: 8th June 1984

Information No:840608

Tandberg A/S
Fetveien 1,
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Postal address
P.O. Box 53
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Product: TIA 3012

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7 1886 TAND N
Cables
TANRA-OSLO

Symptom:	Amplifier cuts out.
Cause:	Time constant of overload relay too short.
Modification:	Increase C 623 and C 624 to 10 μ F C 628 and C 629 to 220 μ F
Result:	Time constant of safety circuit is increased, preventing cutoff caused by strong bass notes.

This modification was introduced from ser no. 2500

Tor Andresen

TANDBERG[®]

Service Information

Kjeller: 19th October 1983

Information No: 831019

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MODIFICATIONS

Introduced from serial no.	Fault Symptom	Modification	Part no.	
1400	Burnt output ampl. or DC offset on the loudspeaker terminals. (NB! By DC offset, the fault must not be corrected by just re-aligning. The problem is often caused by a leaking transistor. Replace, if not already done, the transistors in the right column).	Replace Q403 by BC489B	342579	
		" Q404 "	"	
		" Q411 "	"	
		" Q412 "	"	
		" Q405 " BC490B	344167	
		" Q406 "	"	
		" Q413 "	"	
		" Q414 "	"	
		" Q407 "	"	
		" Q408 "	"	
		" Q409 " BC489B	342579	
		" Q410 "	"	
		" Q419 " 2N5401	} Turn 180° when mount.	413780
		" Q420 "		"
" Q421 " 2N5551	413785			
" Q422 "	"	"		
	Introducing this modification necessitates the following additional changes	Parallel to R443 introduce C435, 2,5 pF	255246	
		Parallel to R444 introduce C436, 2,5 pF	"	
		Replace R501 by 1 K ohms	413270	
		" R502 " 1 K ohms	"	
		" R503 " 680 ohms	413253	
" R504 " 680 ohms	"			
400	Improvements introduced from ser.no. 400, if not performed these changes must be executed together with the improvements from ser.no. 1400	Replace R625 by 10 ohms	421345	
		5 w met.oxide	"	
		Replace R626 by 10 ohms	"	
		5 w met.oxide	"	
		Replace R623 by 10 ohms	363484	
		2 w met.oxide	"	
		Replace R624 by 10 ohms	"	
		2 w met.oxide	"	
		Replace R479 by 100 k ohms	413458	
		" R480 " 100 k ohms	"	
" R417 " 22 K ohms	413407			
" R418 " 22 K ohms	"			
" R435 " 220 ohms	288543			
" R436 " 220 ohms	"			

TANDBERG® Service Information

Introduced from serial no.	Fault Symptom	Modification	Part no.
		Replace C409 by 1n2 polyprop.	379978
		Replace C410 by 1n2 polyprop.	"
		Replace C419 by 10 nF polyprop.	418563
		Replace C420 by 10 nF polyprop.	"
		Replace C421 by 10 nF polyprop.	"
		Replace C422 by 10 nF polyprop.	"

Important

BC 447 and BC 448 must not be used as a service spare part in positions where a new type is introduced through this service info. Also all changes described must have been, or must be performed.

Eliminating an offset failure by just realigning will eventually damage the output circuit by burning the transistors.

Tor Andresen (sign.)
Product manager

Hans Erik Sundvold (sign.)
Senior engineer