

3 kW RCL e-GUN ASSEMBLY SHUNTS ADJUSTMENT


IF BEAM IS AWAY FROM THE CENTER OF THE CRUCIBLE AND IT IS TOWARD THE EMITTER SIDE, IT MEANS THAT THE MAGNETIC IS TOO STRONG. BY ADDING A SHUNT EITHER TOP OR BOTTOM SIDE OF THE SWEEP COIL COVER, IT WILL WEAKEN THE MAGNETIC FIELD AND IT WILL MOVE THE BEAM TOWARD THE CENTER. VERY IMPORTANT THAT THE SHUNTS MUST TOTALLY TOUCH THE RIGHT AND LEFT POLE PIECES FOR THE SHUNTS TO FUNCTION PROPERLY.

REF. WITH ONE SHUNT 112548-XX ADDED.

- a) -01 .03" THICK WILL WEAKEN THE MAGNETIC FIELD APPROX. 5 GAUSS. IT WILL MOVE THE BEAM BY ABOUT .05 OF AN INCH.
- b) -02 .06" THICK WILL WEAKEN THE MAGNETIC FIELD APPROX. 10 GAUSS. IT WILL MOVE THE BEAM BY ABOUT .10 OF AN INCH.
- c) -03 .12 THICK WILL WEAKEN THE MAGNETIC FIELD APPROX. 15 TO 20 GAUSS. IT WILL MOVE THE BEAM BY ABOUT .15 OF AN INCH.

NOTE: ALL SHUNTS ARE NICKEL PLATED AND OF LOW CARBON MATERIAL.

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THERMIONICS LABORATORY INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THERMIONICS LABORATORY INC. IS PROHIBITED.

<small>DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± N/A ANGULAR: MACH ± BEND ± 5° ONE PLACE DECIMAL ± .1 TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005 SURFACE FINISH 63 R.M.S.</small>		FINISH:				DO NOT SCALE DRAWING		REVISION	
						thermionics laboratory inc. 3118 Depot Rd., Hayward Ca. 94545			
DESIGN/ENG.	NAME	SIGNATURE	DATE	USED ON	NEXT ASSY.	3 kW RCL e-GUN ASSEMBLY, SHUNTS ADJUSTMENT			
CHK'D					GEN. USE				
APPV'D									
MFG									
Q.A.				MATERIAL:		DWG NO.		A3	
				WEIGHT:		113972		SHEET 1 OF 1	
						SCALE: 1:1			