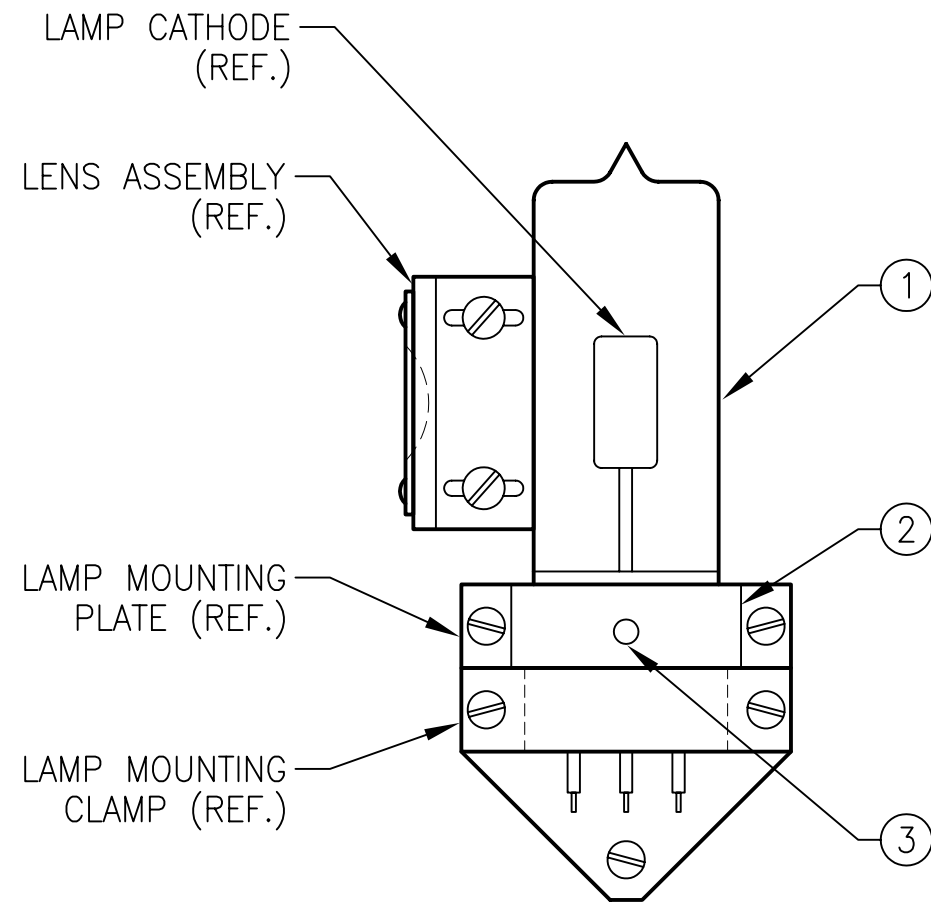


NOTES: UNLESS OTHERWISE SPECIFIED.

- ① THIS KIT RETROFITS AN L-206 LAMP IN A 600 SERIES ANALYZER WHICH CALLS FOR AN L-17 LAMP.
- ② ITEMS 2 & 3 ARE A ONE-TIME RETROFIT ADAPTER. SUBSEQUENT LAMP REPLACEMENTS DO NOT REQUIRE THESE PARTS.
- ③ THIS DOCUMENT, BOTH SHEETS, MUST ACCOMPANY EVERY REPLACEMENT ALMP.

REVISIONS				
REV	DESCRIPTION	DATE	APP.	REV. BY
1	REL. PER ECO# 89-0147	10/10/89	J.T.	ML
2	INC. ECO# 97-0816	5-21-98	WTC	M.V.



4	REF	B49724-RS	ROUTE SHEET
3	1	-----	SCREW, 10-32 NYLON 1/4
2	1	A-49723	ADAPTER
1	1	L 206	D2 - ARC LAMP
ITEM	QTY	PART No.	DESCRIPTION

BILL OF MATERIAL

DO NOT SCALE DWG	THIS DRAWING IS THE PROPERTY OF TELEDYNE ANALYTICAL INSTRUMENTS AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE COPIED, REPRODUCED OR USED WITHOUT WRITTEN PERMISSION.
TOLERANCE UNLESS OTHERWISE SPECIFIED: ANGULAR $\pm 1/2^\circ$ LINEAR $\begin{cases} .X & = \pm .1 \\ .XX & = \pm .02 \\ .XXX & = \pm .010 \end{cases}$	<p>TELEDYNE ELECTRONIC TECHNOLOGIES Analytical Instruments An Allegheny Teledyne Company CITY OF INDUSTRY, CALIFORNIA 91748</p>

S/	SIGNATURES	DATE	TITLE KIT ASSEMBLY D2 LAMP RETROFIT	SCALE	
N/	DRFT: <i>Maritz</i>	5/21/98		SIM	
I/	CHK:			SHEET 1 OF 2	
P/	APPR: J. TOMASELLO	10/10/89			
O/	ENGR:				
F/	S.O.:				
REFERENCE	CAD I.D. B49724-2		MATL. - LISTED -	DWG NO. B-49724	REV 2

INSTRUCTIONS FOR REPLACING D2 LAMP

WARNING: USE U.V. FILTERING EYE GOGGLES ANYTIME YOU WORK WITH THE LAMP. PUT ON HEATPROOF GLOVES WHENEVER YOU MANIPULATE THE LAMP.

1. TURN THE POWER OFF AT THE CONTROL UNIT AND LET THE LAMP COOL OFF.
2. UNSCREW THE 3 LAMP WIRES FROM THE TERMINAL STRIP AND REMOVE THE LAMP FROM ITS HOLDER THERE MAY BE A SET SCREW HOLDING IT IN.
3. MEASURE THE TOTAL HEIGHT OF THE LAMP (PLASTIC BASE PLUS THE GLASS ENVELOPE) TO DETERMINE WHICH LAMP YOU JUST REMOVED. IF THE TOTAL HEIGHT IS GREATER THAN 3.0 IT IS AN L17 (OLD STYLE). IF THE HEIGHT IS 3.0 OR LESS IT IS AN L206 (NEW STYLE).
4. IF THE LAMP YOU REMOVED WAS AN L17 YOU WILL NEED TO INSTALL ADAPTER A-49723 IN THE LAMP MOUNTING CLAMP. ROTATE THE ADAPTER SO THE SET SCREW HOLE FACES STRAIGHT OUT. THIS ALLOWS THE FLAT MACHINED AREA TO CLEAR THE MOUNTING PLATE.
5. INSTALL A NEW L206 LAMP. HANDLE THE LAMP WITH A CLEAN LINTLESS TISSUE. IF THE LAMP IS TOUCHED WITH BARE FINGERS CLEAN IT WITH A TISSUE DAMPENED WITH ISOPROPYL (RUBBING) ALCOHOL. RECONNECT THE LAMP WIRES. THE RED WIRE GOES ON THE MIDDLE (#2) TERMINAL. INSTALL THE NYLON SET SCREW IN THE ADAPTER BUT DO NOT TIGHTEN IT.
6. ROUGHLY ALIGN THE CENTER OF THE CATHODE WITH THE CENTER OF THE LENS. THERE ARE 3 SETS OF HOLES IN THE BACKPLATE FOR REPOSITIONING THE MOUNTING BRACKET. SELECT A SET WHICH GIVES THE BEST ALIGNMENT WITH SOME ROOM FOR UP AND DOWN ADJUSTMENT IN THE FINAL OPTIMIZATION STEP.
7. CONNECT AN OSCILLOSCOPE TO TP3 IN THE DETECTOR MODULE AND TURN ON THE ANALYZER.
8. PUT ON HEATPROOF GLOVES AND ADJUST THE LAMP BY LOOKING AT THE OSCILLOSCOPE TRACE (EYE DAMAGE WILL RESULT IF YOU LOOK DIRECTLY AT THE LAMP). DO NOT TOUCH THE GLASS IN FRONT OF THE BEAM OUTPUT AREA OF THE LAMP.
9. MAXIMIZE THE PEAK AMPLITUDE BY:
 - ROTATING THE LAMP IN THE ADAPTER (DO NOT ROTATE THE ADAPTER OR IT WILL HIT TH MOUNTING PLATE).
 - SLIDING THE ADAPTER UP AND DOWN IN THE LOOSENED CLAMP.
 - ADJUSTING THE SPRING LOADED LAMP MOUNTING BASE.
 - REFOCUSING THE LENS.REPEAT THESE STEPS UNTIL THE HIGHEST POSSIBLE PEAKS ARE OBTAINED.
10. RETIGHTEN THE SPRING LOADED CLAMP AND THE ADAPTER SETSCREW.

THESE INSTRUCTIONS REPLACE SECTION 7.5.2 D LAMP REPLACEMENT IN THE OPERATING MANUAL.