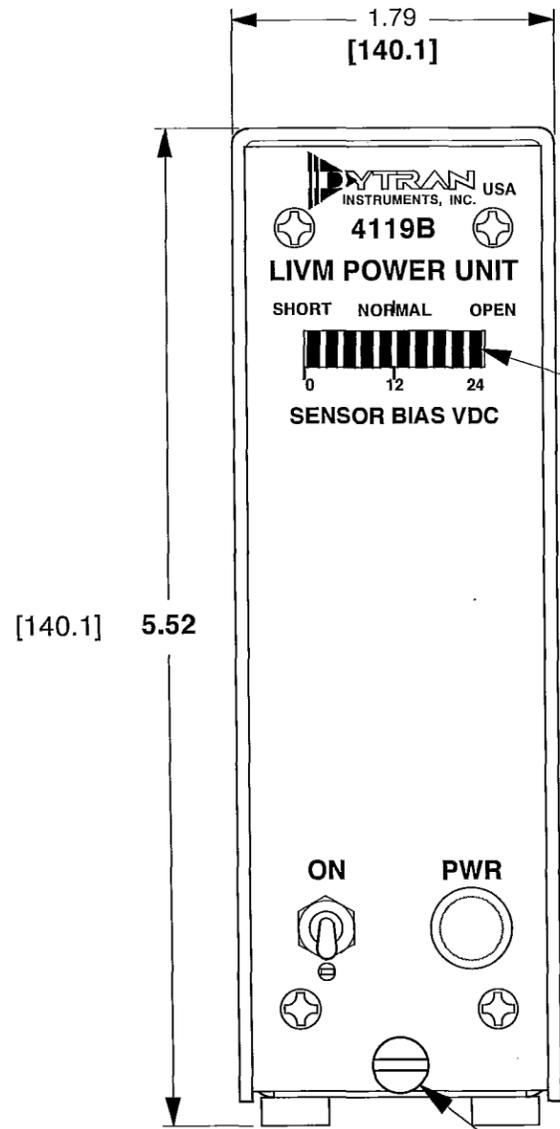


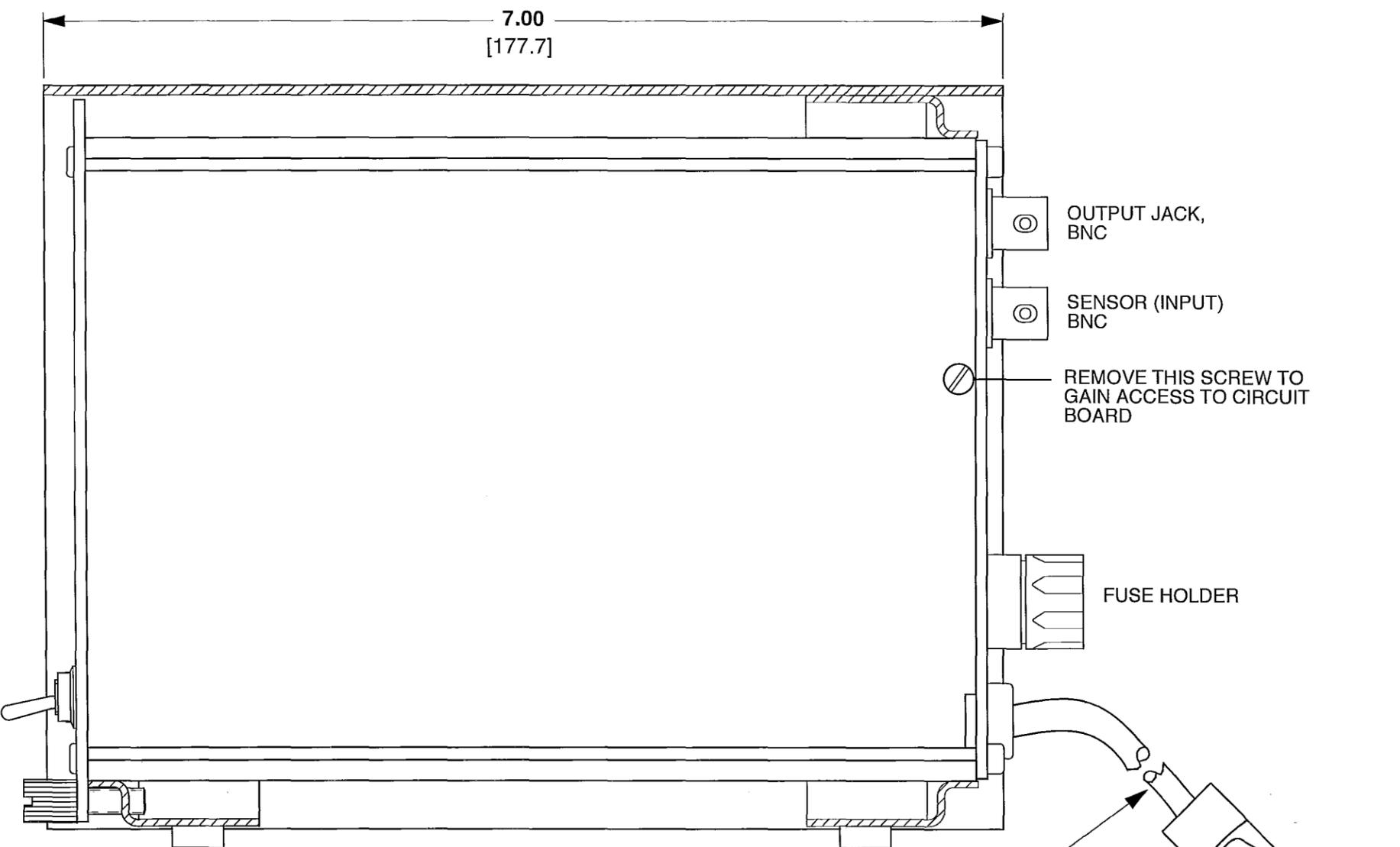
REV	ECN	DESCRIPTION	BY/DATE	CHK	APP
A	10288	UPDATED VIEW OF CONNECTOR	RLA 8/20/13	EM	RT



**4119B POWER UNIT**

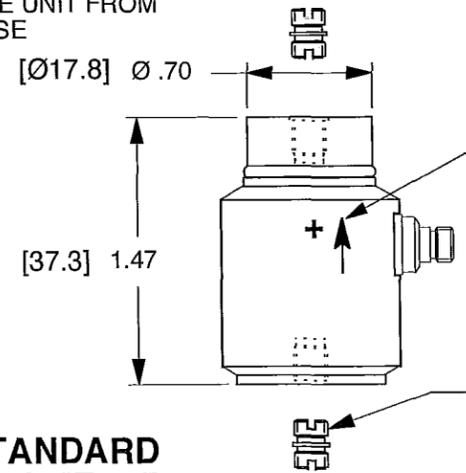
10-SEGMENT LED ARRAY  
DC VOLTMETER  
MONITORS SENSOR  
BIAS VOLTAGE

REMOVE THIS SCREW  
TO REMOVE UNIT FROM  
OUTER CASE



THIS VIEW IS WITH OUTER  
CASE SECTIONED

LINE CORD, 6 FT.



SENSE AND DIRECTION OF  
ACCELERATION FOR POSITIVE GOING  
OUTPUT VOLTAGE

MODEL 6200 10-32  
MOUNTING STUD, 2  
PROVIDED

**3123A STANDARD  
ACCELEROMETER**

UNLESS OTHERWISE SPECIFIED, ALL  
DIMENSIONS ARE IN INCHES. METRIC  
CONVERSIONS [mm] ARE SHOWN IN  
BRACKETS.

<b>DYTRAN</b> INSTRUMENTS, INC.		<b>MASTER</b> ONLY IF IN RED		CHATSWORTH, CA.	
SCALE	NO SCALE	REV	DATE	ECN	
DATE	8/10/05	PART NO.	MODEL 3123AK		
DRAWN	N.C.	CHECKED	R.A.	MAT'L	
APPROVED	N.C.	8/10/05	NEXT ASSEMBLY	USED ON	
TITLE				DWG NO.	
OUTLINE/INSTALLATION DRAWING, SYSTEM MODEL 3123AK				127-3123AK	
				SHEET 1 OF 1	

## SPECIFICATIONS: MODELS 3123AK & E3123AK VIBRATION CALIBRATION SYSTEM

**SYSTEM DEFINITION:** THE **3123AK** SYSTEM CONSISTS OF: 3123A STD. ACCELEROMETER, 4119B POWER UNIT/AMPLIFIER, 6011A05 INPUT CABLE, 6020A05 OUTPUT CABLE, 6200 MOUNTING STUD (2), 6201 10-32/1/4-28 MTG. STUD, 6213 ADHESIVE MOUNTING BASE, 6309 CARRYING CASE. MODEL **E3123AK** IS IDENTICAL EXCEPT FOR THE 230 VAC OPERATING VOLTAGE.

SYSTEM SPECIFICATIONS	VALUE	UNITS
SYSTEM SENSITIVITY @ 100 Hz [1]	100.00 ±1.0	mV/G
FREQUENCY RESPONSE, ±2% [1]	10 to 5,000	Hz
LINEARITY	± 1	% F.S.
RANGE F.S. FOR 5 VOLTS OUT	± 500	G
OPERATING FORCE RANGE [2]	± 10	Force-pounds
EQUIVALENT ELECTRICAL NOISE, (BROADBAND)	.003	G, RMS
OUTPUT IMPEDANCE	2	Ohms

### ACCELEROMETER MODEL 3123A SPECIFICATIONS

SENSITIVITY, ±5%	100	mV/G
DISCHARGE TIME CONSTANT	0.5 to 1.5	Sec
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
TEMPERATURE RANGE	-60 to +200	°F
TRANSVERSE SENSITIVITY, MAX	3	%
ELECTRICAL CONNECTOR, RADIAL	10-32 COAXIAL	Jack
MOUNTING HOLES, TOP & BOTTOM	10-32	UNF-2B
MAXIMUM SHOCK	3000	G
MATERIAL (NON-MAGNETIC)	300 SERIES STAINLESS STEEL	
BIAS VOLTAGE	+7.5 to +9.5	VDC
SUPPLY CURRENT (CONSTANT CURRENT)	2	mA
COMPLIANCE VOLTAGE	+20	VDC
WEIGHT	3.5/100	oz/grams

### AMPLIFIER/POWER UNIT 4119B SPECIFICATIONS

SENSOR SUPPLY CURRENT/VOLTAGE, STD	2/+20	mA/VDC
FILTER, LOW PASS, ACTIVE	VCVS	12 db/octave
SENSOR/OUTPUT CONNECTOR	BNC/BNC	Coaxial jack
INPUT POWER, STD MODEL, 115 VAC	2.4	VA
INPUT POWER, 'E' MODEL, 230 VAC	2.4	VA
POWER CORD, STD	6 FT 3-WIRE W/CHASSIS	GND
WEIGHT	32/900	oz/grams
SIZE (H x W x D) [3]	5.5 x 1.6 x 8.0	Inches
(H x W x D) [3]	140 x 41 x 203	mm
TEMPERATURE RANGE	0 to +120	° F

[1] System calibrated at factory with **NIST** traceable transfer standard accelerometer weighing 19 grams. NIST traceability number supplied with each system calibration.

[2] Force pound range = product of weight of test accelerometer x G level.

[3] Mounts in available Model 4200 19-inch wide equipment rack. Up to 10 units fit in one rack.