

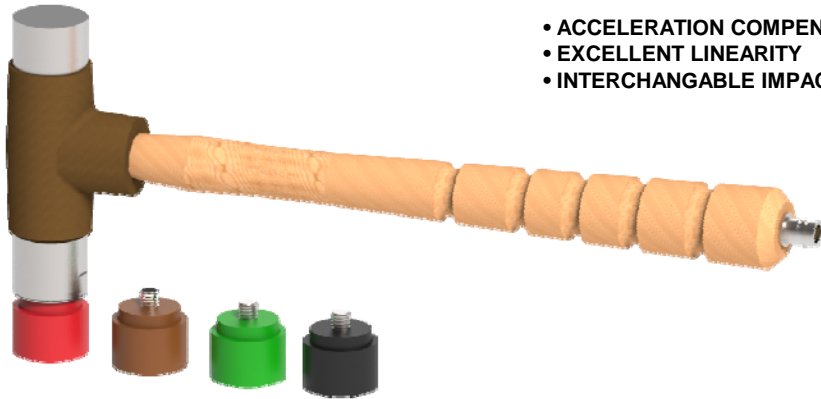
**2** NEVER USE HAMMER WITHOUT IMPACT TIP ATTACHED TO THE FRONT SURFACE OF THE SENSOR AS SHOWN. THIS WILL PERMANENTLY DAMAGE THE SENSOR.

1. HEAD WEIGHT-1 LB

REDRAWN ON CAD 1/4/99

EXCEPT AS OTHERWISE NOTED  
 ALL DIMENSIONS IN INCHES  
 TOLERANCE: .XXX ± .XX ± .01  
 SURFACE FINISH EXCEPT AS NOTED ✓  
 BREAK EDGES TO DEBURR RADIUS OR CHAMFER  
 △ THESE DIAS ○ TO T.I.R.  
 FILLETS - MAX RAD.

<b>BYTRAN</b> INSTRUMENTS, INC.		<b>MASTER</b> ONLY IF IN RED		CHATSWORTH, CA.	
SCALE	1X	REV	-	DATE	-
DATE	3/2/95	PART NO.	-	ECN	-
DRAWN	N.C.	CHECKED	N.C.	MAT'L	-
APPROVED	<i>[Signature]</i>	NEXT ASSEMBLY	-	USED ON	5805A
TITLE				DWG NO.	
<b>OUTLINE INSTALLATION DRAWING, MODEL 5805A IMPULSE HAMMER</b>				<b>127-5805A</b>	
				SHEET 1 OF 1	



- ACCELERATION COMPENSATED
- EXCELLENT LINEARITY
- INTERCHANGABLE IMPACT TIPS

**Supplied Accessories:**

- 1) Series 6530 Impact Tips: SEE TABLE →
- 2) Accredited calibration certificate (ISO 17025)

Part #:	Color:	Hardness:	Excitation:
6530S	Brown	Soft	Lower Frequency
6530M	Green	Medium	
6530T	Red	Tough	Higher Frequency
6530H	Black	Hard	

**Suggested Accessories**

- 1) Constant Current Power Source Units:
  - 4105C: Battery Powered
  - 4114B1: Line Operated
- 2) Compatible Cables:
  - 6020AXX: BNC to BNC connection
  - 6011AXX: BNC to 10-32 connection
  - 6113: 10-32 to BNC adaptor

**Notes:**

- [1] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- [2] Supply power from constant current source power sources only. Do not use with power supply without current limiting, 20mA maximum. To do so will destroy built-in amplifier.
- [3] Percent of full scale or any lesser range, Zero based best-fit straight line method.
- [4] Do not attempt to measure the resistance at the BNC connector. Many Ohm meters will provide a test voltage with high enough current to destroy the built-in IC.

**PHYSICAL**

Weight	Head
Length	Type
Connector	Thread
	Location
Material	Force Sensor
	Hammer Head
	Handle
Sensing Element	Impact Tips
	Material
	Mode

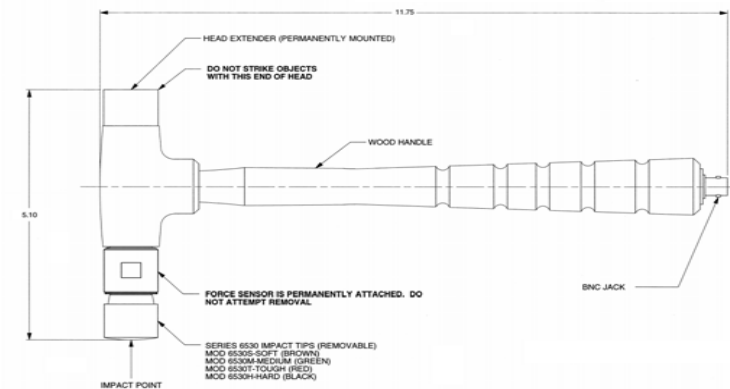
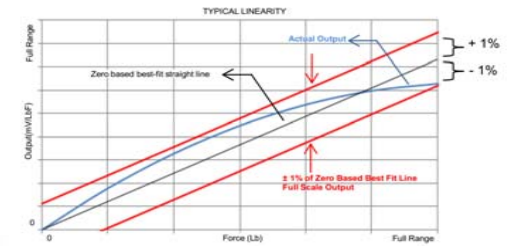
ENGLISH		SI	
1.0	lbs	0.45	kg
11.75	in.	29.85	cm
Coaxial		Coaxial	
BNC		BNC	
End		End	
17-4 PH SS		17-4 PH SS	
Cast Steel		Cast Steel	
Wood		Wood	
Polyurethane		Polyurethane	
Quartz		Quartz	
Compression		Compression	

**PERFORMANCE**

Sensitivity, ± 10 %	1	mV/LbF	0.25	mV/N
Range	5,000	Lbs. Force	22.2	kN
Maximum Force	10,000	Lbs. Force	44.5	kN
Linearity [3]	± 1	% Full Scale	± 1	% Full Scale
Resonant Frequency	>50	kHz	>50	kHz
Stiffness, Force Sensor	8	Lb/µin	1.39	kN/µm

**ELECTRICAL**

Output Voltage F.S	±5	V	±5	V
Output Impedance, Max [4]	100	Ω	100	Ω
Bias Voltage	7.5 to 9.5	VDC	7.5 to 9.5	VDC
Compliance Voltage Range [2]	+18 to +30	VDC	+18 to +30	VDC
Supply Current Range [2]	2 to 20	mA	2 to 20	mA
Discharge Time Constant, Nom	>1500	Sec	>1500	Sec



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-5805A for more information.

