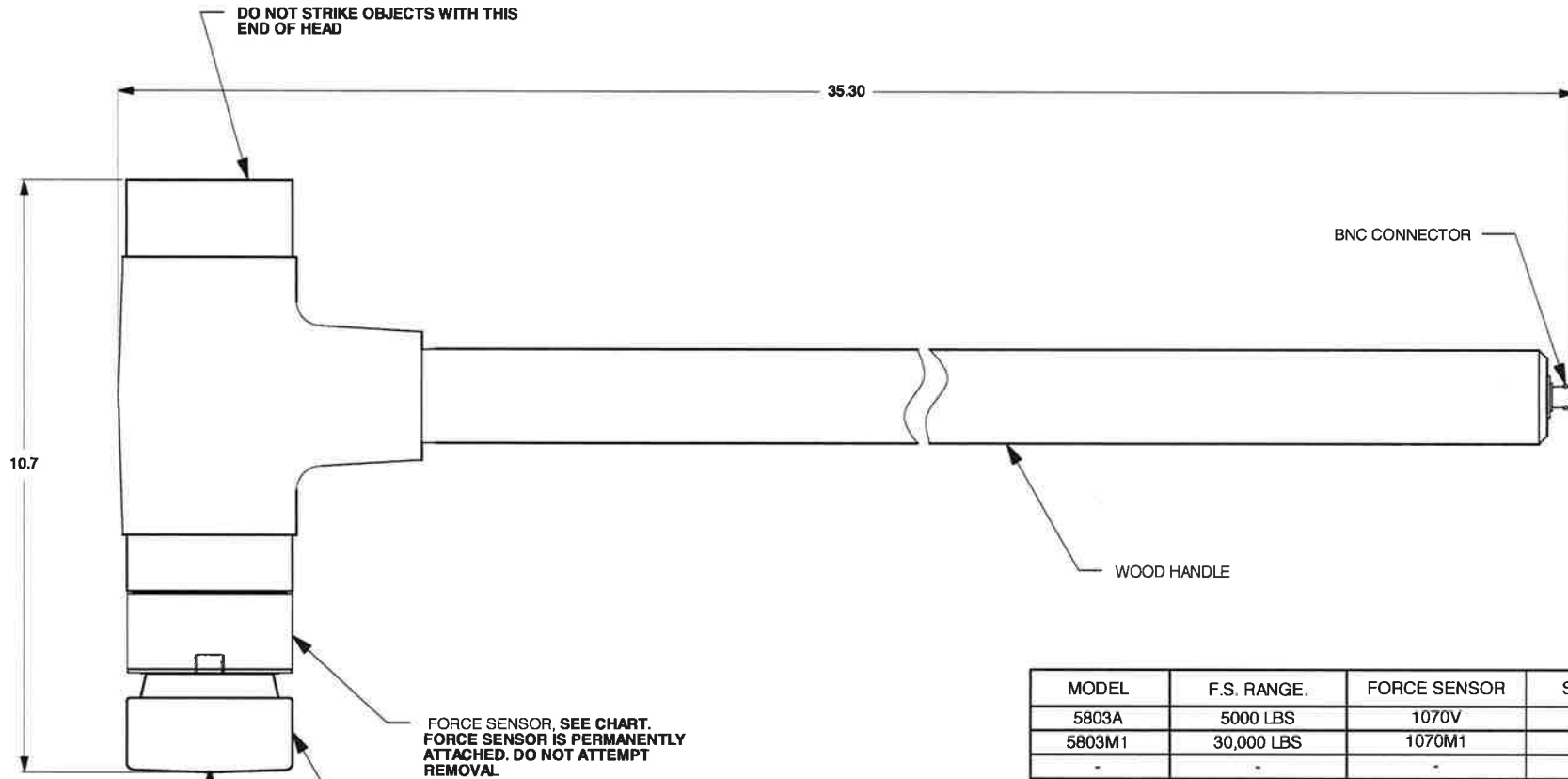



REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	14056	ADDED NOTE 3 OPERATING TEMP	RLA 03/07/18	MH	LA



MODEL	F.S. RANGE	FORCE SENSOR	SENSITIVITY
5803A	5000 LBS	1070V	1 mV/G
5803M1	30,000 LBS	1070M1	0.166 Mv/G
-	-	-	-

SERIES 6252 IMPACT TIPS 
 MOD 6252S - SOFT (BROWN)
 MOD 6252T - TOUGH (RED)
 MOD 6252M - MEDIUM (GREEN)
 MOD 6252H - HARD (BLACK)

3. OPERATING TEMP: -40°C TO +66°C (-40°F TO +151°F)
2. HEAD WEIGHT - 12 LBS. NOM.

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

MASTER COPY IF IN RED

DIYTRAN
INSTRUMENTS, INC. CHATSWORTH, CA

SCALE: 1/2	REV:	DATE:	ECN:
DATE: 9/15/83	PART NO: SEE CHART FOR MODEL		
DRAWN: N.C.	CHECKED: N.C.	DATE:	
APPROVED: N.C.	05/15/98	NEXT ASSEMBLY:	USED ON:
TITLE: OUTLINE/INSTALLATION DRAWING, MODEL SERIES 5803A IMPULSE HAMMERS			DWG NO. 127-5803A
			SHEET 1 OF 1

Model Number 5803A	PERFORMANCE SPECIFICATION	Doc No PS5803A
	IMPULSE HAMMER	REV B, ECN 14056, 03/06/18



- ACCELERATION COMPENSATED
- EXCELLENT LINEARITY
- INTERCHANGABLE IMPACT TIPS

		ENGLISH		SI	
PHYSICAL					
Weight	Head	12.0	lbs	5.44	kg
Length		35.3	in.	89.66	cm
Connector	Type	Coaxial		Coaxial	
	Thread	BNC		BNC	
	Location	End		End	
Material	Force Sensor	17-4 PH SS		17-4 PH SS	
	Hammer Head	Cast Steel		Cast Steel	
	Handle	Wood		Wood	
	Impact Tips	Polyurethane		Polyurethane	
Sensing Element	Material	Quartz		Quartz	
	Mode	Compression		Compression	

		ENGLISH		SI	
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		75	kHz	75	kHz
Stiffness		110	Lb/μin	19.06	kN/μm

		ENGLISH		SI	
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		>1600	Sec	>1600	Sec

		ENGLISH		SI	
ENVIRONMENTAL					
Operating Temperature		-40 to +151	°F	-40 to +66	°C

Supplied Accessories:

- 1) Series 6252 Impact Tips: SEE TABLE →
- 2) Accredited calibration certificate (ISO 17025)

Part #:	Color:	Hardness:
6252S	Brown	Soft
6252M	Green	Medium
6252T	Red	Tough
6252H	Black	Hard

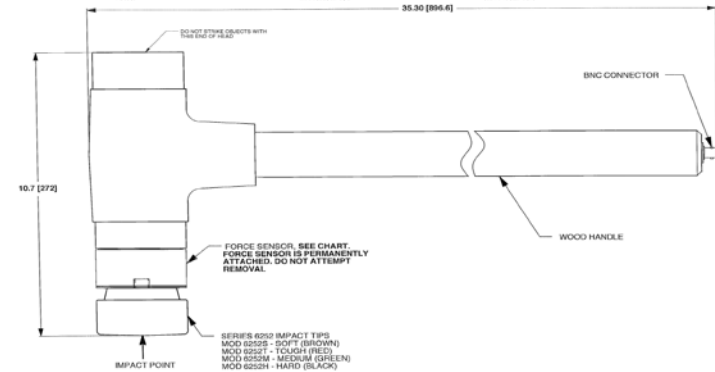
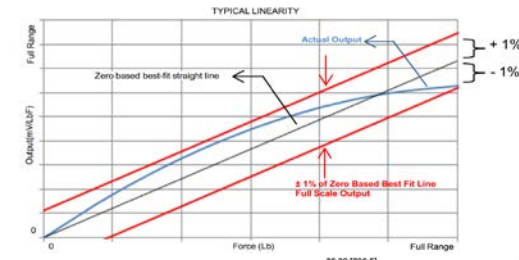
Excitation:
 ↑ Lower Frequency
 ↓ Higher Frequency

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.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-5803A for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 www.dytran.com
 For permission to reprint this content, please contact info@dytran.com