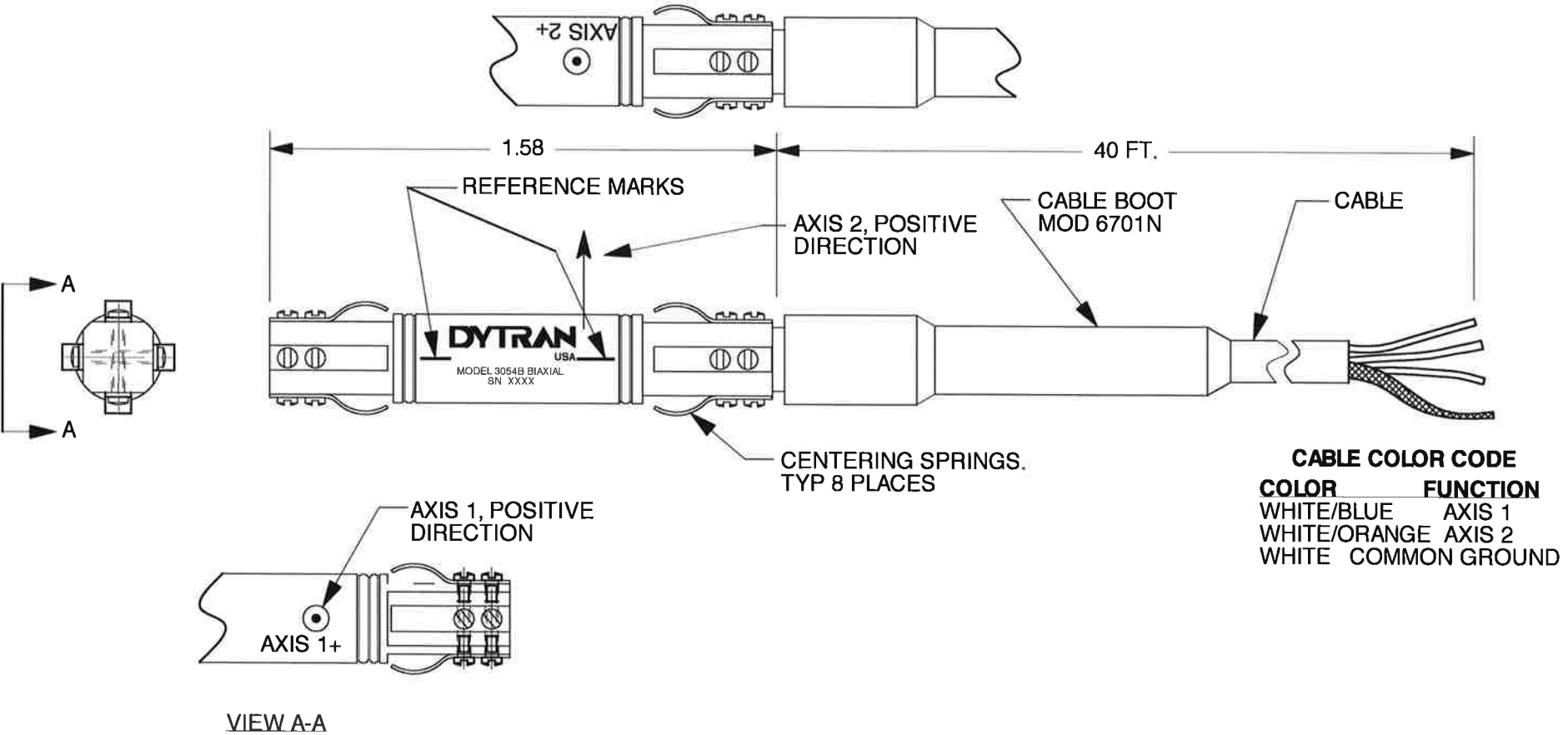



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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	11562	ADDED MARKING AND SHT 2	LA 12/05/14	JS	LN
C	12757	CLARIFIED AXIS MARKINGS	RA 06/10/16	MH	W



EXCEPT AS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES	
TOLERANCE: .XXX = ± .005	XX = ± .01
SURFACE FINISH EXCEPT AS NOTED	63 ✓
BREAK EDGES TO DEBURR .005 RADIUS OR CHAMFER	
1 THESE DIAS Ⓞ TO	T.I.R.
FILLETS -	MAX RAD. -

1. THIS ASSEMBLY IS DESIGNED TO FIT INTO
A .318 MINIMUM INSIDE
DIAMETER TUBE.

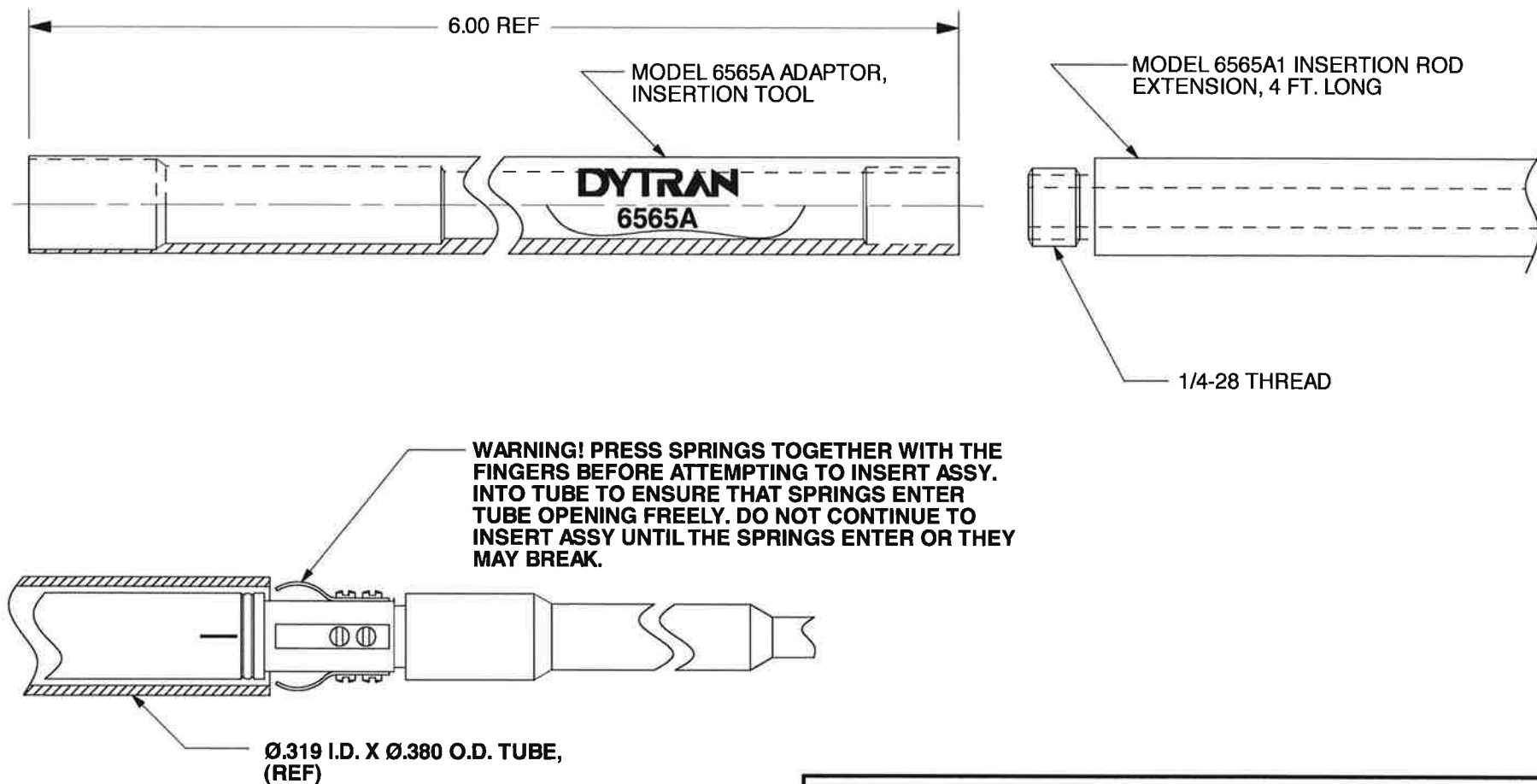
**MASTER**
INSTRUMENTS, INC. ONLY IF IN RED

CHATSWORTH, CA.

SCALE 2X	DESIGN -	DATE -	ECN SEE REV BLOCK		
DRAWN NC	DATE 09/08/03	PART NO. -			
CHECKED - RA	DATE 09/08/03	MAT'L -			REV C
APPROVED AS	DATE 09/08/03	NEXT ASSEMBLY -	USED ON -		
TITLE OUTLINE / INSTALLATION DRAWING, MODEL 3054B			DWG NO. 127-3054B		
			SHEET 1 OF 2		

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		MASTER ONLY IF IN RED		CHATSWORTH, CA	
SCALE 2X	DESIGN	DATE			
DRAWN	DATE	PART NO.			
CHECKED	DATE	MAT'L	REV B		
APPROVED	DATE	NEXT ASSEMBLY	USED ON		
TITLE			DWG NO.		
OUTLINE / INSTALLATION DRAWING, MODEL 3054B			127-3054B		
SHEET 2 OF 2					

SPECIFICATIONS, MODEL 3054B BI-AXIAL ACCELEROMETER

SPECIFICATIONS	VALUE	UNITS
PHYSICAL		
WEIGHT	7.2	GRAMS
SIZE (DIA x LENGTH)	Ø 0.275 X 1.5	INCHES
MOUNTING [1]	UNIT SLIDES INTO Ø.319 MIN. I.D. TUBE ON SPRINGS	
ELECTRICAL CONNECTION PROVISION	3-WIRE 40 FT. LONG CABLE W/FLYING LEADS	
MATERIAL, HOUSING/CONNECTOR	304L	STAINLESS STEEL

PERFORMANCE

SENSITIVITY, ± 10% [1]	25.0	mV/G
RANGE, F.S. (each axis)	± 200	G
FREQUENCY RESPONSE, ± 10% [2]	2 to 500	Hz
ELEMENT NATURAL FREQUENCY	>30	kHz
EQUIVALENT ELECTRICAL NOISE	.003	G, RMS
LINEARITY [3]	1	%F.S.
SIGNAL POLARITY	SENSITIVE AXES ARE ORTHOGONAL AND TRANSVERSE	

ENVIRONMENTAL

MAXIMUM VIBRATION	+/- 600	G
MAXIMUM SHOCK	1000	G
TEMPERATURE RANGE	-60 to +250	°F
ENVIRONMENTAL SEAL	HERMETIC WITH BOOTED CABLE	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F

ENVIRONMENTAL

SUPPLY CURRENT RANGE, (each axis) [4]	2-to 20	mA
COMPLIANCE (SUPPLY) VOLTAGE RANGE (each axis)	+18 to +30	VDC
OUTPUT IMPEDANCE, TYP.	100	OHMS
OUTPUT BIAS VOLTAGE	+7 TO +9	VDC
DISCHARGE TIME CONSTANT	0.2 TO 1.0	SEC
GROUND ISOLATION [5]	10	MEGOHMS (MIN.)

ACCESSORIES

6565A: INSERTION ROD ADAPTOR, 6 INCHES LONG
 6565A1: INSERTION ROD EXTENDER, 48 INCHES LONG

- [1] Reference sensitivity measured at 100 Hz, 1 G RMS per ISA RP 37.2
 [2] Upper frequency response is limited by resonance of mounting springs and body mass.
 [3] Linearity is % of specified full scale (or any lesser full scale range), zero-based best fit straight line method.
 [4] Power only with Dytran LIVM power unit or other Dytran-compatible constant current type power unit. If power is applied without current limiting protection, the internal amplifier will be immediately destroyed.
 [5] Case ground isolation is achieved by internal means.