INSTALLATION INFORMATION - MODEL 3170 SERIES LOAD CELL

1. Lebow Model 3170 Series Load Cell must be mounted on a surface that is flat to 0.0002 inch, perpendicular to load axis within 1 degree and rigid enough so as not to deform appreciably under load. An easy way to obtain the flat rigid surface is by using a Lebow supplied base or mounting plate. Where this is not practical, a rigid surface equivalent to the appropriate Lebow base or mounting plate will suffice.

2. When installing these load cells on any surface other than on a Lebow base or mounting plate, the Grade 8 screws holding the cell to the mounting surface must be tightened to the value shown in the torque chart.

3. Model 3170 Series Load Cells must have jam nuts tightened to the value shown in the table below, to avoid thread damage.

4. For best performance the use of jam nuts is recommended. The jam nuts should be installed as indicated in the table below.

5. Rod end bearings, or threaded adapters, should have smooth threads and class 3 fit. They should be installed hand tight and backed off 1 turn prior to tightening jam nut as indicated in the table below.

6. Bearing plates should be hardened steel (R'c' 45 or higher) when mating with a load button or steel load cells.

7. To eliminate potential reading errors, the outer rim or base of the load cell and its connecting electrical cable should be mounted on the fixed or non-moving structure.

LOAD CELL MOUNTING SCREW TORQUE (Applicable for Load Cells supplied without bases)				THREADED ADAPTOR INSTALLATION	
	Grade 8 Cap Screws Installation Torque				Jam Nut or Load Button Installation
MODEL	Size	ft-lb	N-m	MODEL	ft-lb N-m
3173-200 thru 3K	1/4-28	17	23	3174-5K, -10K	100 135
MODEL 3174	3/8-24	55	75	ABOVE 10K*	*PULL TO 120-
MODEL 3175	1/2-20	120	160		150% OF
MODEL 3176	5/8-18	250	340		MAXIMUM LOAD
					APPLIED AND
					SECURE JAM NUT