

Fast, Accurate, Wheel-Load Weigher calibration, certified traceable to the S.I. through N.I.S.T.

The Morehouse Wheel Load Weigher Calibrator is designed to speed the calibration and certification of wheel load weighers, yet maintain the high degree of accuracy required for proper certification. The calibrator can be used to calibrate weighers singly, or in pairs in strict accordance with NIST.

The calibrator consists of three major parts...the main frame, a hydraulic system and a force standard:

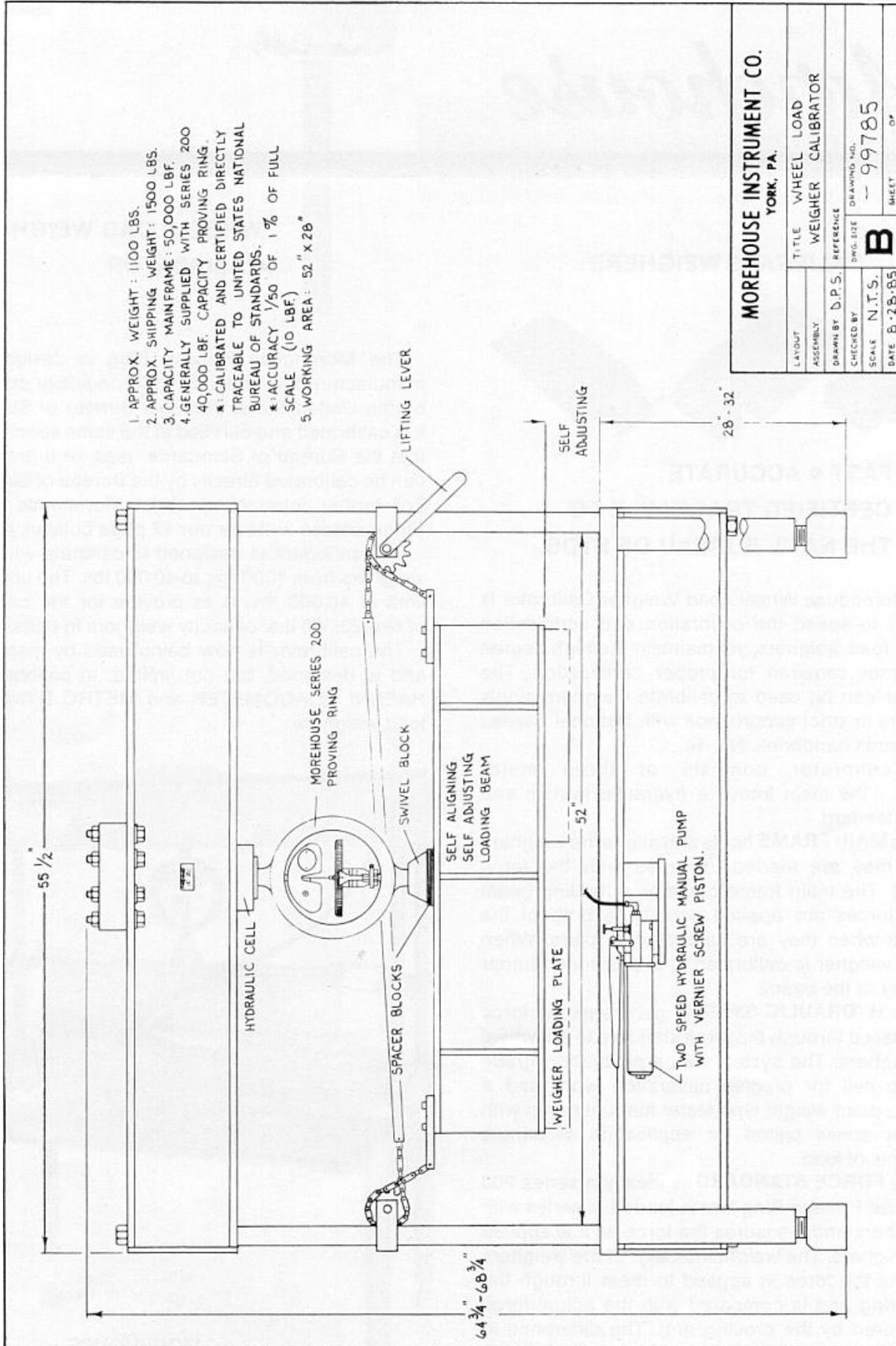
1. The Main Frame holds and aligns the weighers so that they are loaded in a series with the force standard. The main frame contains a loading beam so that forces are applied equally to both of the weighers when they are calibrated in pairs. When a single weigher is calibrated, it is positioned under the center of the beam.
2. The Hydraulic System generates the force that is passed through the force standard to the wheel load weighers. The system has a calibration grade hydraulic cell for precise calibration work, and a precision deadweight type tester manual pump, with a vernier screw piston for application of minute increments of load.
3. The Force Standard is ideally a Morehouse Precision Calibration load cell that is loaded in a series with the weighers, and measures the force as it is applied. The weight indicator of the weighers is read as the force is applied to them through the system, and is compared with the actual force as measured by the load cell. The difference in readings between the weighers and the system is the error of the weighers.



The Morehouse Proving Ring is designed and manufactured to specifications originally conceived by NIST. It is calibrated and certified to the same specifications that NIST uses, or if preferred it can be calibrated by NIST. For further information about Morehouse Proving Rings, please visit our web site at: www.mhforce.com

The calibrator is designed to calibrate wheel load weighers from 1,000 lbs to 40,000 lbs. The upper load limit of 40,000 lbs provides for the calibrating of two 20,000 lbs capacity weighers in pairs.

The calibrator is now being used by several state governments, and was originally designed, but not limited to, calibrate GEC, HAENNI, LOADOMETER and METRO DYNE wheel load weighers.



MOREHOUSE INSTRUMENT CO.
YORK, PA.

LAYOUT	TITLE	WHEEL LOAD
ASSEMBLY	WEIGHER	CALIBRATOR
DRAWN BY D.P.S.	REFERENCE	
CHECKED BY	DWG. SIZE	DRAWING NO.
SCALE N.T.S.	B	-- 99785
DATE 8-28-85	SHEET	OF