

WARRANTY

The BASELINE® electronic push-pull dynamometer is warranted for 1 (one) full year (parts and labor) from date of purchase. If unit needs repair contact your local dealer or Fabrication Enterprises, Inc.:

Fabrication Enterprises, Inc.
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Elmsford, NY 10523
U.S.A.

TEL: 800-431-2830, (914) 345-9300



BASELINE® EVALUATION
INSTRUMENTS

ELECTRONIC PUSH-PULL DYNAMOMETER

great for:
Muscle Strength Testing
Job Task Analysis
Functional Capacity Evaluation

The Baseline® electronic push-pull dynamometer uses state-of-the-art “load-cell” technology to assure the highest standards of accuracy, repeatability and reliability. The unit is available in four measurement ranges and comes complete with 3 push pads, 1 pull hook, 1 snap hook and a padded carrying case. CE certified. 1-year warranty. Handles and accessories are interchangeable with the Baseline® hydraulic push-pull dynamometer. Can be used with lift platform to conduct muscle strength and functional capacity tests.

Questions/comments? info@FabricationEnterprises.com
Post Office Box 1500, White Plains, New York 10602 (USA)
Tel: 800-431-2830 / 914-345-9300 FAX: 800-634-5370 / 914-345-9800

Controls

The force gauges have three keys for controlling all functions of the instrument. POWER Turns the instrument on and off. It is also used to select an option in the setup mode. PEAK Used to select Tension Peak, Compression Peak or normal (real time) display mode. The actual peak readings are always captured and can be displayed at any time. ZERO Zeros any tare value (up to the full capacity of the gauge) and clears the peak readings stored in memory.

Display

The display consists of a 4 1/2-digit section and several indicators. Their functions are listed below.

LO BAT Low battery voltage indicator

C Compressive force indicator

T Tensile force indicator

C PEAK Peak compressive force indicator

T PEAK Peak tensile force indicator

LB, KG, N, G Units of measurement (model dependent)

---- (dashes) Overload (>110% of range)

Operation

The default mode of operation is the normal (real time) mode. If the peak readings are to be observed as they occur, then the mode of operation can be changed by pressing PEAK until the desired mode (C PEAK or T PEAK) appears on the display. Please note that this action affects only the display. The actual tensile and compressive peak readings are captured automatically and can be cleared from the memory by either pressing ZERO or shutting off the gauge. The gauge is equipped with an automatic shutdown feature which will shut it off after a selected period of inactivity (readings do not change by more than ± 10 counts and no keys are pressed). The entire display will flash for 5-7 seconds as a warning of the imminent shutdown. If during this time any condition indicating activity occurs, the internal timer will be reset and the instrument will continue its operation. To change the default setting of 30 minutes, hold PEAK while turning on the gauge. Press PEAK repeatedly until 'AOFF' appears. Press POWER to select this function. The current setting will flash on the display. Use the PEAK key to scroll through the displayed choices and POWER to select. Press POWER again at the 'donE' prompt in order to save the setting.

Select Displayed Measurement Units (lb, kg, N)

The displayed unit of measurement and the default mode of operation (peak or normal) can be changed by entering the setup mode. To enter setup mode hold PEAK while the unit is off, and while holding PEAK press POWER. Once in setup mode, press PEAK and 'init' will appear. Press POWER at the 'init' prompt and toggle through pounds, kilograms and newtons by repeatedly pressing the PEAK button. When the appropriate measurement unit has been selected, save the change by pressing POWER. Press Power twice more to exit setup mode. NOTE: if you decide not to change the unit of measurement after entering setup mode, you must toggle through all three units (lb, kg, N) in order to exit setup mode.

Power

The gauge may be powered by the internal 9V battery, or by the included AC adapter. The need for the battery replacement is indicated by a 3-step sequence: 1 - a steady LO BAT appears on the display indicating the last 10% of the battery life, 2 - LO BAT begins to flash indicating the need for an immediate battery replacement, 3 - the entire display except LO BAT flashes for several seconds and then the instrument shuts off.

Calibration

To properly calibrate this instrument, application of an exact load appropriate for your model will be required. It must be in pounds as indicated by the model number. For example, the 12-0340 requires a 50 lb calibration weight regardless of displayed units. While holding PEAK, turn the gauge on. Press PEAK repeatedly until 'CAL' appears on the display and press POWER three times to select the calibration mode. At the 'null' prompt press ZERO. At the 'SPAN' prompt apply your test weight and press POWER. The display will show "uuuu" or "nnnn" if the test weight is insufficient or excessive accordingly. If this happens, the only way to terminate the calibration mode is by momentarily disconnecting the battery or connecting the AC adapter without plugging it into a wall outlet. This will stop the calibration procedure without making any changes to the previous calibration data. A successful calibration is indicated by 'donE' on the display. Press POWER to save the changes and resume normal operation.

Specifications

ACCURACY $\pm 0.5\%$ of full scale ± 1 digit

SAMPLING RATE 30 readings/second

DISPLAY 2.5/s in normal mode, 30/s in

RATE peak mode

SAFE 150% of gauge capacity. Display

OVERLOAD shows ---- (dashes) above 110%

POWER 9V battery or AC adapter

BATTERY LIFE 30 hours of continuous operation

SIZE 3.7" x 2.5" x 1.5" (94.0mm x 63.5mm x 38.1mm)

WEIGHT 0.65 lb (0.3 kg)

Model Capacity

12-0340 50lb. 22.5kg.

12-0341 100lb. 45.0kg.

12-0342 250lb. 112.5kg.

12-0343 500lb. 225.0kg.

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