

AMERICAN FORKLIFT SCALES



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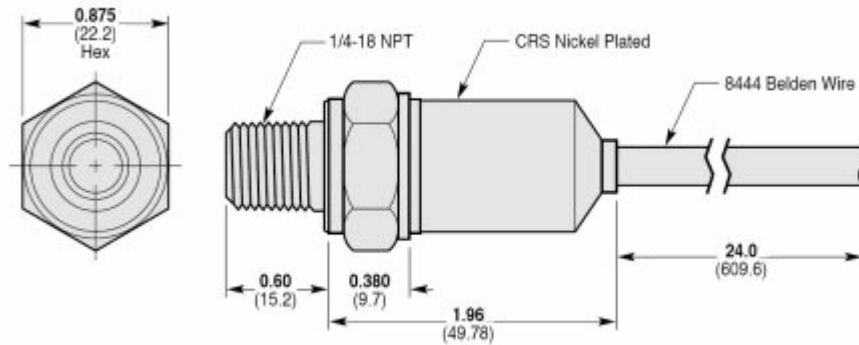
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Model LTWS-1 *Patriot* Hydraulic Scale Installation



AccuLoad Model LTWS-1 Patriot Hydraulic Weighing Systems utilize a hydraulic pressure transducer or sensor that will "T" into or "Tap & Drill" in the high-pressure lift line between the control valve and lift cylinder. The standard hydraulic sensor for the Model LTWS-1 system has a 1/4-18 NPT male thread.



Select any convenient location of your choice in the high-pressure line, but do not utilize the hydraulic return, tilt or shift lines.

Examine the location intended for this sensor to determine what adaptor fittings will be necessary and gather these parts prior to starting the installation.

If your lift system utilizes check-valves, be sure to place the sensor on the cylinder side, not the pump-side of the check-valve.

If the check-valve is built in to the cylinder, it may be necessary to drill and tap the cylinder wall to accept the sensor.

Often, an innovative installation adaption must be considered. For example, the Mitsubishi vehicle uses a Japanese standard fitting for which an adaptor may be difficult to locate locally. We have found it convenient to fabricate a short hose with the appropriate Japanese fitting on one end and the 1/4 NPT female fitting on the other, to make the connection to the pressure sensor.

A short hose may also simplify a difficult access installation.

If a "T" is selected, an adapter will be needed according to the line size. A JIC thread can be on the 2 sides with the "T" reduced and the third leg adapted to NPT thread.



If "Tap & Drill" is selected, our fittings on the sensor and hose are 1/4"-18

NPT. One option would be to drill for an 1/8" adapter and tap to accept the 1/4-18 NPT sensor.

If rigid pipe is used for plumbing, a new hose, cut to length, may be considered with the appropriate fittings as a replacement or adaptor. A test port built into the valve at the factory may also be available.

This is a rigid tube example of a Tee fitting with a snubber hose between the Tee and the Sensor.



Indicator Installation:

(See Cab photo at beginning of this instruction for a typical Indicator installation.)

A swivel bracket is furnished to allow the indicator to be mounted overhead or on the dash. The indicator has a backlight and will go into a "Sleep-Mode" to save power until the scale is activated.

On electric-drive forklift models, a 36Vdc or 24Vdc system will require a battery converter to provide the required 12Vdc operating voltage. Contact American Forklift Scales for the proper voltage convertor.



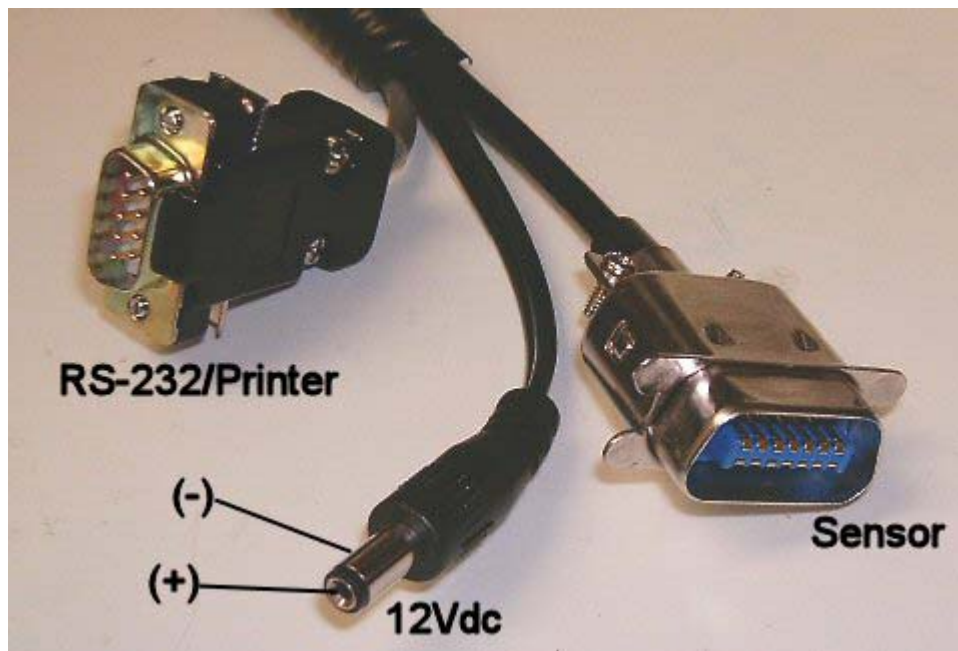
The TI-500 Indicator can be mounted wherever convenient for the operator to view and operate. (See cab photo at beginning of this paper.)

Splice the transducer/sensor cable to the cable provided to connect to the Indicator. If a Splice Box or J-Box are provided, we recommend their use to assure effective and protected connections.

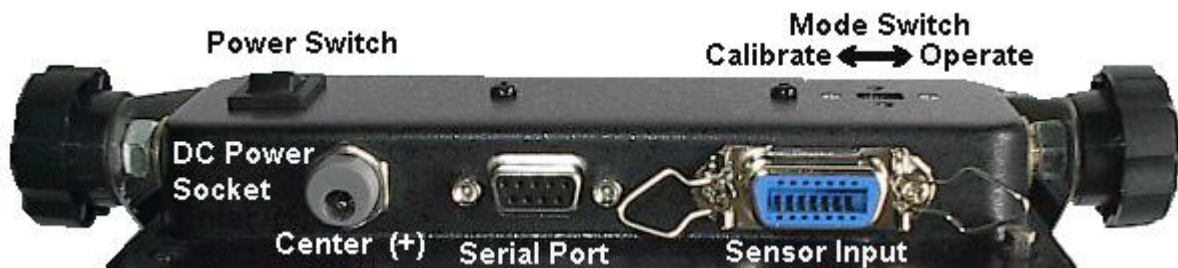




Check the +/- leads on the 12Vdc power plug. Inside the barrel is (+) polarity, the outside of the barrel is (-) polarity



Connect the cables to the appropriate Indicator connectors and you are ready for calibration. (See the Calibration Instructions.)



Calibration Preparations:

Prepare a heavy weight for Calibration and Testing. The exact weight of the Test Weight should be known and clearly marked on the Test Weight. If possible, the Test Weight should weigh more than 50% of the lift capacity of the forklift.

If you have problems that are not covered by these Technical Tips, call (800) 4722-6921 (California Direct: 1-805-644-4000) for assistance.

All American Forklift Scales onboard weighing systems are warranted for the life of the original installation. We will repair or replace at our option, less labor and shipping.

PROVIDING SOLUTIONS FOR YOUR ONBOARD WEIGHING NEEDS

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