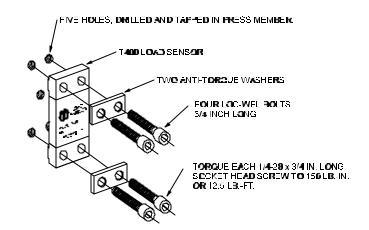
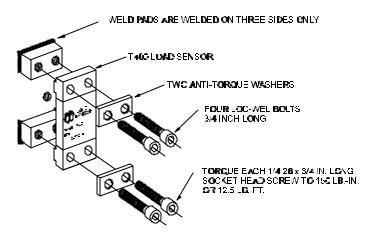
# **INSTALLING T400 LOAD SENSORS**



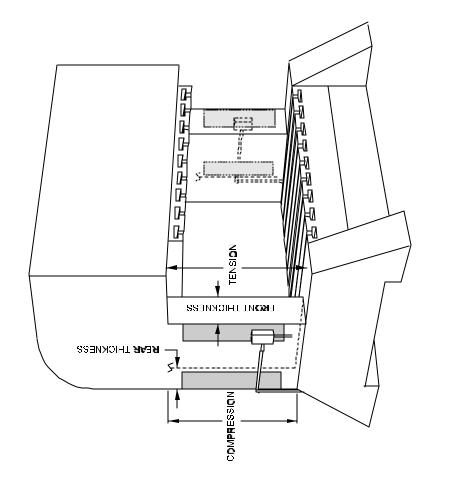


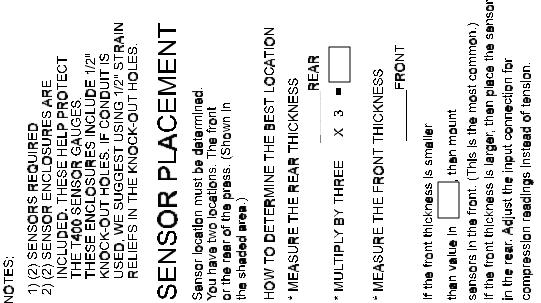
The above illustrations represent the proper arrangement of Model T400 Load Sensor kit parts using either the Drill and Tap method or the Weld method.

A proper installation is necessary to produce good results.

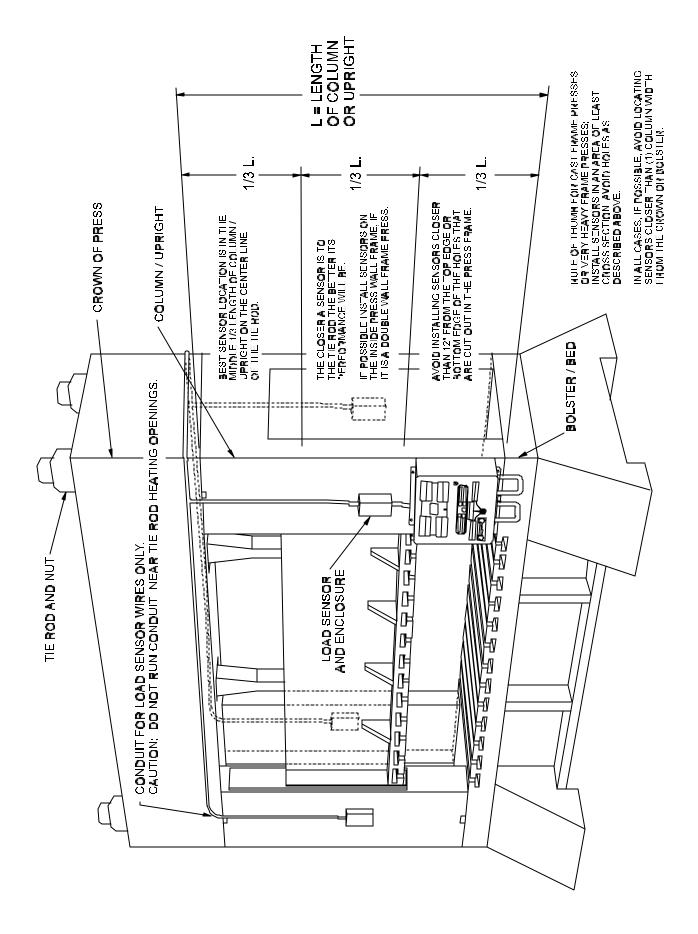
Before installing the sensors, please read the appropriate instructions listed below.

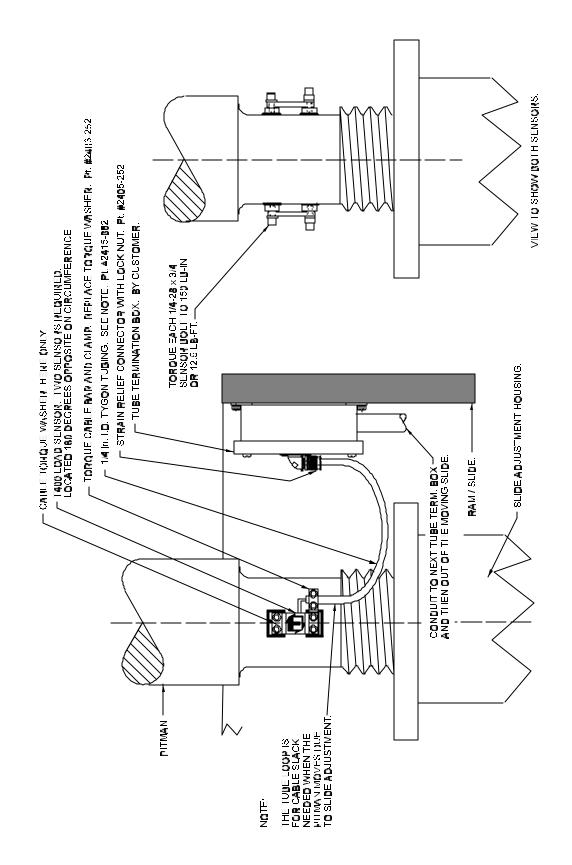
Sensor Placement	Page 2
Press Frame	Page 3
Pitman Mount	Page 4
Drill and Tap Method of Installing Sensors	Page 5
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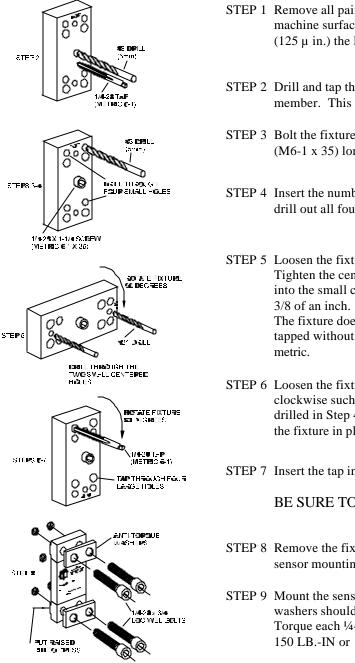


## USING THE T400 SENSOR INSTALLATION FIXTURE KIT No. 1977-749

## (METRIC INSTALLATION FIXTURE KIT No. 1974-749)

#### DRILL AND TAP METHOD FOR MOUNTING SENSORS

BE SURE THE SENSOR LOCATION FOLLOWS THE BEST LOCATION DESCRIBED ON THE PREVIOUS PAGES.



- STEP 1 Remove all paint and grease from sensor mount area. If the machine surface is flat (total indicated reading of .002") and smooth (125  $\mu$  in.) the load sensor can be bolted directly to the surface.
- STEP 2 Drill and tap the center hole for mounting the fixture to the press member. This hole should be ½ inch (13mm) deep.
- STEP 3 Bolt the fixture to the press member using the ¼-28 by 1-¼ inch (M6-1 x 35) long socket head cap screw in the center of the fixture.
- STEP 4 Insert the number 3 drill (5mm) into the smaller corner hole and drill out all four holes to a depth of <sup>3</sup>/<sub>4</sub> of an inch (19mm.)
- STEP 5 Loosen the fixture. Rotate the fixture 90 degrees clockwise.
  Tighten the center screw of the fixture. Insert the number 21 drill into the small centered hole and drill out both holes to a depth of 3/8 of an inch. These holes are for mounting the sensor enclosure. The fixture does not allow for tapping these holes. They are tapped without the fixture. Enclosure mounting is not done in metric.
- STEP 6 Loosen the fixture. Rotate the fixture another 90 degrees clockwise such that the larger corner holes line up with the holes drilled in Step 4. Insert a tap to be sure the holes line up. Lock the fixture in place by tightening the center screw.
- STEP 7 Insert the tap into the larger tap guide holes and tap each hole.

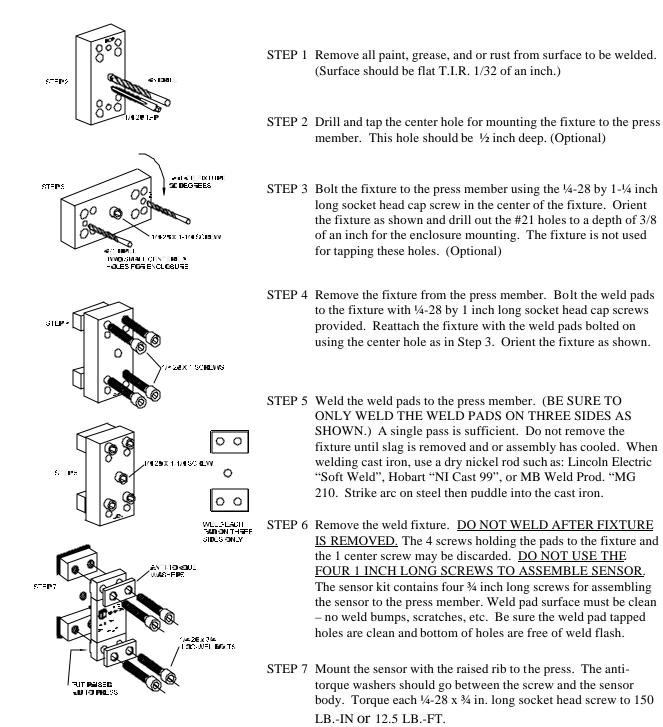
BE SURE TO USE PLENTY OF TAPPING FLUID.

- STEP 8 Remove the fixture and repeat Steps 1-7 for each additional sensor mounting position.
- STEP 9 Mount the sensor with the raised rib to the press. The anti-torque washers should go between the screw and the sensor body. Torque each <sup>1</sup>/<sub>4</sub>-28 x <sup>3</sup>/<sub>4</sub> in. long socket head cap screw to 150 LB.-IN or 12.5 LB.-FT.

# USING THE T400 SENSOR INSTALLATION FIXTURE KIT No. 1977-749

#### WELD PAD METHOD FOR MOUNTING SENSORS

BE SURE THE SENSOR LOCATION FOLLOWS THE BEST LOCATION DESCRIBED ON THE PREVIOUS PAGES.



# SENSOR ENCLOSURE MOUNTING

USE 19-32 TAP IN THE TWO 3/8 DEEP HOLES THAT WERE DPILLED WITH THE FIXTURE IN THE PREVIOUS INSTRUCTIONS. MCUNT THE ENCLOSURE TO THE TRESS MEMBER AND RUN 1/2 INCH CONDUIT TO THE LOAD MONITOR ENCLOSURE. RUN SENSOR CABLE THROUGH CONDUIT. PLACE SENSOR ON MOUNTING HOLES. PLACE ANTI-TORQUE WASHERS OVER SENSOR HOLES. SCREW IN SENSOR'S BOLTS, [4] EACH, FINGER TIGHT. USE ONLY THE 1/4-28 x 3/4 TLOC-WELT BOLTS THAT ARE IN THE SENSOR PACKAGE. TORQUE FACH 1/4-28 x 3/4 SCREW TO 1501 R-IN. OR 12.5LB-FT. ASSEMBLE BOX COVER.

