

SMARTTOOL™

FIG. 1



CONTROLS: (see fig. 1)

- 1 **ON/OFF** - If left idle for 6 minutes, SMARTTOOL™ will automatically shut off.
- 2 **HOLD** - Push to "freeze" and "unfreeze" display readings.
- 3 **LISTEN & LEVEL AUDIO** - Push to activate and de-activate the beeper. Beeper will sound at level and plumb.
- 4 **CALIBRATE** (see Calibration Procedures)
- 5 **% IN/FT** - Push to change the display units: Degrees (°), Slope (%), Pitch (in/ft).

25.5° 47.7% 5 3/4"

Pitch readings are in 1/8 in/ft increments. Plus and minus signs indicate when the pitch is slightly more (+) or slightly less (-) than the pitch shown on the display. **Note:** The **% IN/FT** button 5 can be used even when the display is in HOLD. This feature is a convenient way to convert angles from one unit to another. For example a 5 in/ft roof pitch measurement can be converted to 22.6° for setting up cuts on a chop saw.

LCD DISPLAY:

Display reads right side up when SMARTTOOL™ is upside down!

- 6 **UP/DOWN ARROWS** - Left and right indicators point toward level or plumb (whichever is closer). Indicators get shorter as SMARTTOOL™ gets closer to level (0°) or plumb (90°).
- 7 **LOW BATTERY** - Low 9V battery indicator. Replace battery within 24 hours.

- 8 **DIGITAL DISPLAY** - Display readout of current measurement.
- 9 **LISTEN & LEVEL AUDIO**
- 10 **% IN/FT MODES** - Indicates measurement "mode": Degrees (°), Slope (%), Pitch (in/ft).

BATTERY INSTALLATION:

The battery is inside the endcap opposite the plumb vial. To install the battery, remove the endcap using a coin or blade in the slot provided. Be careful not to pull on the battery wires.

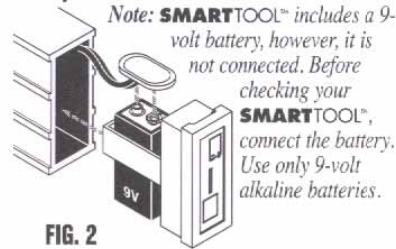


FIG. 2

CALIBRATION PROCEDURES

PROCEDURE FOR LEVEL:

Step 1: Place SMARTTOOL™ on a flat surface with the display facing you. Turn it on and wait 10 seconds. Push and hold the CALIBRATE button for 2 seconds until CAL1 appears on the display.



Step 2: Rotate SMARTTOOL™ end-for-end on the flat surface with the display now facing away from you. Wait 10 seconds. (see fig. 3)

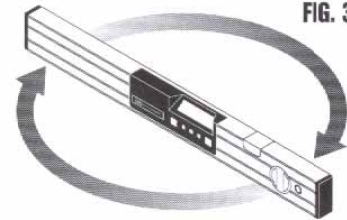


FIG. 3

Push and hold the CALIBRATE button for 2 seconds until CAL2 appears on the display.



Step 3: Place SMARTTOOL™ upside down facing you. Wait 10 seconds. Push and hold the CALIBRATE button for 2 seconds until CAL1 appears on the display.

Step 4: Rotate SMARTTOOL™, still upside down, end-for-end on the flat surface with the display now facing away from you. Wait 10 seconds. Push and hold the CALIBRATE button for 2 seconds until CAL2 appears on the display. (see fig. 4)

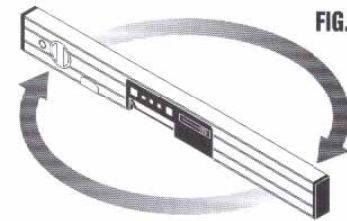


FIG. 4

SMARTTOOL™ has now been calibrated for level.

PROCEDURE FOR PLUMB:

Step 5: Place SMARTTOOL™ against a flat vertical surface with the display facing you, the plumb vial at the bottom, and the level vial away from the surface. Wait 10 seconds. Push the CALIBRATE button for 2 seconds until CAL1 appears on the display.

Step 6: Turn SMARTTOOL™ with the display facing away from you, along its long axis (the plumb vial is still at the bottom, but the level vial is now against the flat vertical surface.) Wait 10 seconds. Push the CALIBRATE button for 2 seconds until CAL2 appears on the display. (see fig. 5)

Step 7: Place SMARTTOOL™ against the flat vertical surface with the plumb vial at

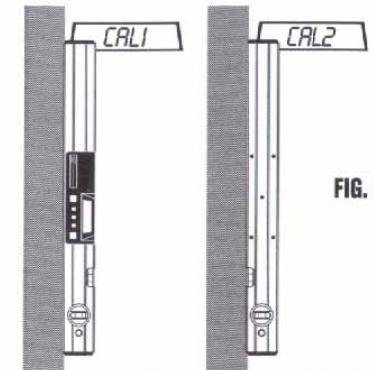


FIG. 5

the top and the display facing you. Wait 10 seconds. Push the CALIBRATE button for 2 seconds until CAL1 appears on the display. **Step 8:** Turn SMARTTOOL™ along its long axis, with the plumb vial still at the top but the display now facing away from you. Wait 10 seconds. Push the CALIBRATE button for 2 seconds until CAL2 appears on the display.

SMARTTOOL™ has now been calibrated for plumb.

Note: To read accurately away from level and plumb, SMARTTOOL™ must be calibrated through all eight calibration steps. If the CALIBRATE button is pushed when SMARTTOOL™ is not near level or plumb, the display will show --- and SMARTTOOL™ will ignore the calibration attempt. If CAL ALL appears on the display, SMARTTOOL™ needs to be calibrated through all eight calibration steps.

Note: We recommend checking calibration daily, after a rough fall, or if the temperature has changed by more than 20° F since the previous calibration. To check calibration, follow the above procedures without depressing the CALIBRATE button. If the readings vary by more than 0.1 deg. then SMARTTOOL™ should be recalibrated.

MAINTENANCE

The following tips will ensure that your SMARTTOOL™ is kept in top condition.

- The SMARTTOOL™ is weather and water resistant. Should SMARTTOOL™ be splashed with mortar or other construction site residue, simply wipe clean with a damp cloth. Do not immerse the SMARTTOOL™ in water.
- Aluminum surfaces can be cleaned with a non-abrasive cleansing powder.
- ABS polymer surfaces should be cleaned with a mild liquid soap and water.