TEST MODE

The Test Mode is entered by shorting two contacts (adjacent to the front of the A600) together momentarily on the underside of the main PCB (Fig. 3). (A screwdriver blade is a suitable tool for this work).

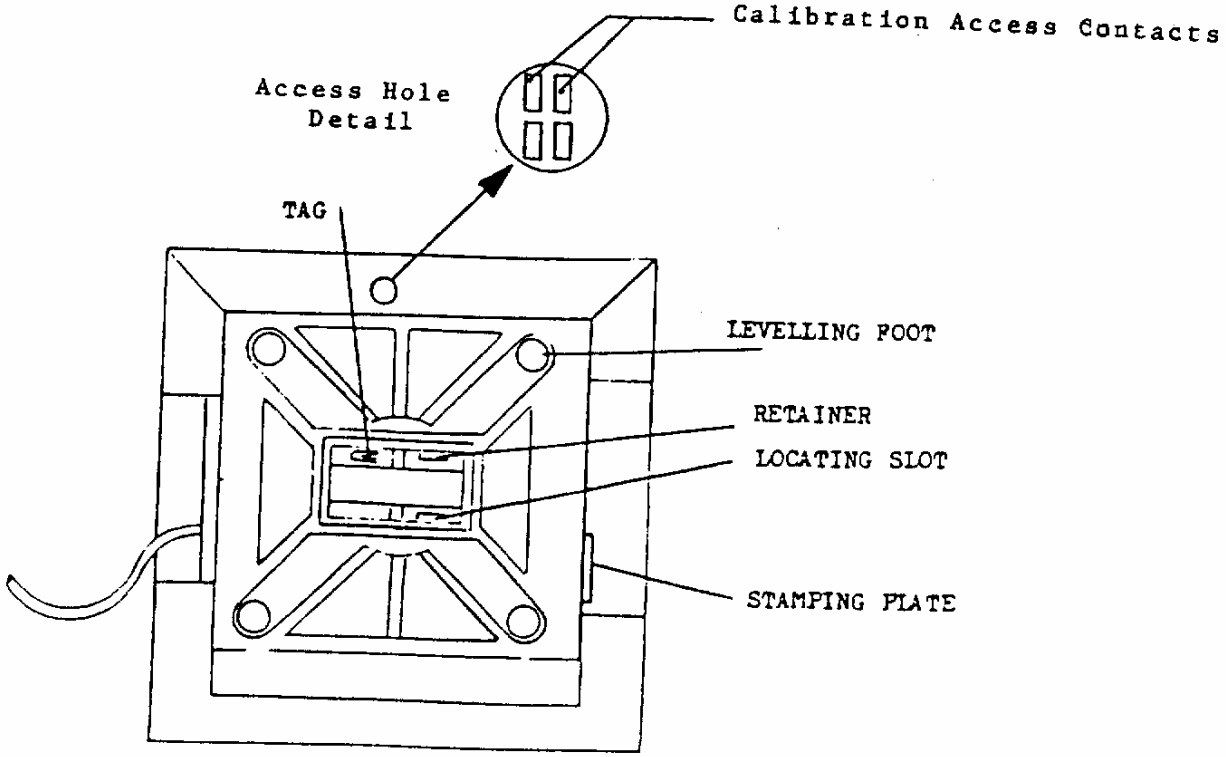
Access is gained through a sealable hole in the base molding - see the below diagram for details. If the scale has been previously sealed, this seal can only be removed by dismantling the scale.

Access to calibration and configuration modes can now be obtained.

The scale will also display sub-division information of weight in the unit price display.

To exit the Test Mode either repeat the entry procedure or unplug the scale from the line supply.

Fig. 3 Underside of Base



CONFIGURATION

CONFIGURATION PROCEDURE

Refer to Figure 4 - Display & Keyboard Arrangements - for list of function keys.

The scale can be configured from a variety of options detailed in the Option Table, page .

To enter an option, put the scale into Test Mode (Section 5) and then follow the step by step instructions detailed below:

ACTION	DISPLAY
Short out 2 contacts	WD (nn.nn) UPD (nn) TPD (tESt)
Press **ZERO** (select configuration mode "C1")	WD (BLANK) UPD (BLANK) TPD (C1)
Press **SAVE** (Enter configuration mode)	WD (BLANK) UPD (XXXXX) TPD (XXXXX)
Enter DIGIT CONFIGURATION CODE (Using numeric keys and function keys as indicated in Fig. 4)	WD (BLANK) UPD (01D2A) TPD (00300)
Press **SAVE** (Store new configuration)	WD (nn.nn) UPD (nn) TPD (tESt)

This completes the configuration procedure.

Note: X = Undefined value
nn.nn = Applied Load
nn = Internal counts

OPTION TABLES

The 10 digit code used to configure the operation of the scale is formed by adding the numeric equivalent value of each option in each digit together (unless otherwise stated) to form a hexadecimal number. The example given is for a 30lb scale without 1/4 or 1/2 keys.

DIGIT	OPTION FUNCTION	OPTION VALUE	SUM OF OPTIONS	HEXADECIMAL VALUE
1	**TP ROUNDING NEAREST 1** TP ROUNDING NEAREST 5 TP ROUNDING NEAREST 10 10 % ZERO RANGE LOWER PRICE BASE	**0** 1 2 4 8	= 0	0
2	NO FUNCTION LISTED BELOW **BLEEP INHIBIT BEHIND ZERO** RETAINED UNIT PRICE INHIBIT KEYBOARD TIME OUT DUMMY ZERO UNIT PRICE	0 1 2 4 8	= 1	1
3	SEMI SELF CANCELING TARE **-VE TARE DISPLAY** RETAINED TARE **KEYBOARD ENTER TARE** **TARE INTERLOCK**	0 1 2 4 8	1+4+8 = 13	D
4	15 LB X 1/8 OZ. 15 KG X 10 G 15 LB X 0.01 LB **30 LB X 0.01 LB** 7.5 KG X 5 G 15 KG X 5 G 25 LB X 1/4 OZ	0 1 2 3 4 5 6	= 3	3
5	NO DECIMAL POINT/COMMAS 1 DECIMAL PLACE **2 DECIMAL PLACE** 3 DECIMAL PLACE TAIL ON DECIMAL POINTS **US KEYBOARD**	0 1 2 3 4 8	2+8 = 10	A
6	**GENERAL EXPORT** UK VARIANTS WEIGHT FREEZE CANADIAN INTERLOCK	**0** 1 2 4	= 0	0
7	NO FUNCTION LISTED BELOW DISABLE **STANDBY** KEY DISABLE **+** KEY DISABLE **SAVE** KEY DISABLE **ZERO** KEY	0 1 2 4 8	= 0	0
8	NO FUNCTION LISTED BELOW **DISABLE 1/4 KEY** **DISABLE 1/2 KEY** DISABLE **TARE** KEY DISABLE **CLEAR** KEY	0 1 2 4 8	1+2 = 3	0
9	**NO FUNCTION LISTED BELOW** SALAD BAR TARE	**0** 1	= 0	0
10	**NO FUNCTION**	**0**	= 0	0

HEX CONVERSION TABLE

DECIMAL	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
HEX VAL	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

EXAMPLE

The below example details the standard 301b U.S. configuration. If other options are required see the Option Table on the previous pages.

DIGIT 1 = 0
DIGIT 2 = 1
DIGIT 3 = 1 + 4 + 8 = 13 = D
DIGIT 4 = 3
DIGIT 5 = 2 + 8 + = 10 = A
DIGIT 6 = 0
DIGIT 7 = 0
DIGIT 8 = 3
DIGIT 9 = 0
DIGIT 10 = 0

Thus the eight digit code = (MSD) 01D3A00300 (LSD) is entered MSD first.

CALIBRATION

Before calibrating the load cell, ensure that the configurable options have been set. The following details the calibration procedure:

	ACTION	DISPLAY
A	Short out 2 contacts	WD (nn.nn) UPD (nn) TPD (tESt)
B	Press **ZERO** (Select configuration mode)	WD (blank) UPD (C1) TPD (blank)
C	Press **ZERO** (Select calibration mode)	WD (blank) UPD (C2) TPD (blank)
D	Press **SAVE** (Select calibration mode)	WD (xx.xx) UPD (nn) TPD (2ErO)
E	Empty weigh plate and press **SAVE**	WD (xx.xx) UPD (nn) TPD (FULL)
F	Apply full load to weigh plate and press **SAVE**	WD (xx.xx) UPD (nn) TPD (FInE)
G	Remove full load and press **1/4** to zero the scale	WD (00.00) UPD (03/04) TPD (FInE)
H	Apply full load and fine adjust the display reading using the **STANDBY** key to increase and the **+** key to reduce the reading	WD (30.01) UPD (03/04) TPD (FInE)
I	Repeat steps G and H until no further adjustment is required	WD (30.00) UPD (03/04) TDP (FInE)
J	Press SAVE at 30lb when ZERO and FULL LOAD readings are correct	WD (30.00 UPD (03/04) TPD (2ErO)
K	Remove FULL LOAD from weigh plate and press **SAVE**	WD (00.60) UPD (03/04) TPD (bALAnC)
L	Press **1/4** key	WD (00.00) UPD (03/04) TPD (tESt)

This completes the calibration of the A600, to return to normal mode turn the scale off and on or short out the two contacts as before.

CALIBRATION (cont.)

Note 1: xx.xx = undefined value.
nn.nn = Applied Weight
nn = Internal Subdivisions

Note 2: In steps G, H and L, the unit price display will show 07/08 if the 15lb x 0.01 capacities have been selected.

Note 3: The changes in no-load and full load output of the load cell, due to manufacturing tolerance, are compensated for in the microcomputer. Therefore, no adjustments to the main board are necessary.