

# Yamato



## Digital Portion Scale AW-WSM-5KG SERVICE MANUAL

PLEASE TAKE THE TIME TO READ THESE INSTRUCTIONS BEFORE  
STARTING TO USE THE SCALES

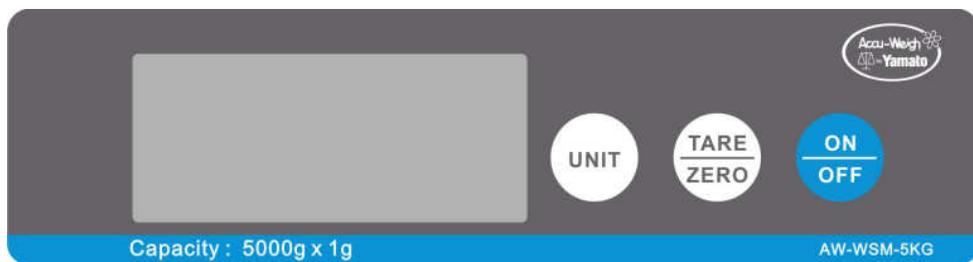
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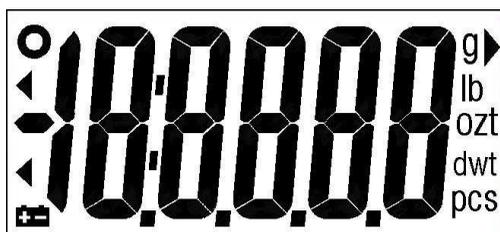
## SPECIFICATIONS

MODEL#	AW-WSM-5KG
Capacity Division	5000g x 1g
Units of Measure	kg, lb
Function keys	ON/OFF, TARE/ZERO, UNIT
Stabilisation Time	1-2 seconds
Operating Temp. and humidity	0°C - 40°C 35%-90% RH
Transport and storage temperature and humidity	-20°C +60°C 25%-95% RH
Power supply	9 volt battery
	ADAPTOR 9V 300mA
Indicator display	1.0" LCD display with 5 active digits
Dimensions	Assembled size: 343×348×55mm Platform size: 343×293×20mm

## PANEL AND LCD DISPLAY



## LCD DISPLAY



1.  : Stable symbol
2.  : Minor weight value
3.  : Low battery indication

## KEY FUNCTION DESCRIPTION:

### a. ON/OFF:

1. Turn on the scale by pressing the **ON/OFF** key.
2. The display will count down from 88888 and will automatically display zero (weighing mode).
3. Place the item in the middle of the scale. Wait until the scale stabilizes and stable annunciator illuminates on the display.

### b. ZERO/TARE:

Tare allows the user to zero the instrument to cancel the weight of a container from the reading of the instrument, thus giving the true weight of the product being tested.

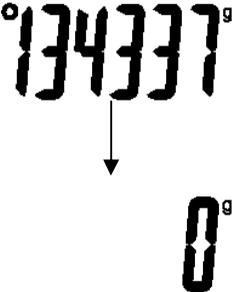
1. Turn on the scale by pressing the **ON/OFF** key.
2. When 0 is displayed, place the object to be tared on the scale platform.
3. Press the **TARE/ZERO** key after the weight stabilizes and stable annunciator appears on the display.
4. The display will return to 0.
5. Place the item to be weighed (without removing the tare object) on the scale. The weighing result is the Net weight of the item.

To delete the saved tare value, remove the tare object from the scale platform and press **TARE/ZERO** key.

### c. UNIT:

Press the **UNIT** key to switch from one weighing unit to another. For example from g to lb.

## CALIBRATION PROCEDURE

Operation	Display
<ol style="list-style-type: none"> <li>Place the scale on a hard, level surface.</li> <li>Don't press ON/OFF key,</li> </ol>	
<ol style="list-style-type: none"> <li>Press and hold ON/OFF, and then press UNIT key three times. To enter into calibration procedure.</li> <li>Display will show the Count value (256 ~ 250000).</li> <li>Then press the ZERO/TARE key.</li> </ol>	
<ol style="list-style-type: none"> <li>Place the calibration weight (5000g) carefully in the centre of the scale plate, and the display will show SPAN Count value (4000-80000). Press the ZERO/TARE key. The adjustment process is started.</li> </ol>	
<ol style="list-style-type: none"> <li>When the adjustment is finished successfully, the scale is automatically switched over to the weighing mode again and the calibration weight value will be displayed.</li> </ol>	
<ol style="list-style-type: none"> <li>Remove the calibration weight. Re-power on, the instrument is in normal mode.</li> </ol>	

# INSTRUCTION AUTO SHUT-OFF FUNCTION

Press ZERO  
Key 3 sec



⇒ Select



⇩ Define



SET



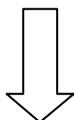
P131



AOFF



End



1205



1805



2405



3005



OFF

## POWER SUPPLY & LOW BATTERY

1. The AW-WSM-5KG scale uses 9 volt battery.
2. Low battery indication will display on LCD display when battery power is insufficient to perform the weighing.
3. When “**LoBt**” is displayed, please change batteries. Please refer to “INSTALLING THE BATTERY”.

## INSTALLING THE BATTERY

AW-WSM-5KG uses 9 volt battery (not included) for operation. If you want scale to be operated by battery, please install batteries by referring to instruction below.

1. Turn the scale over to find the battery housing cover.

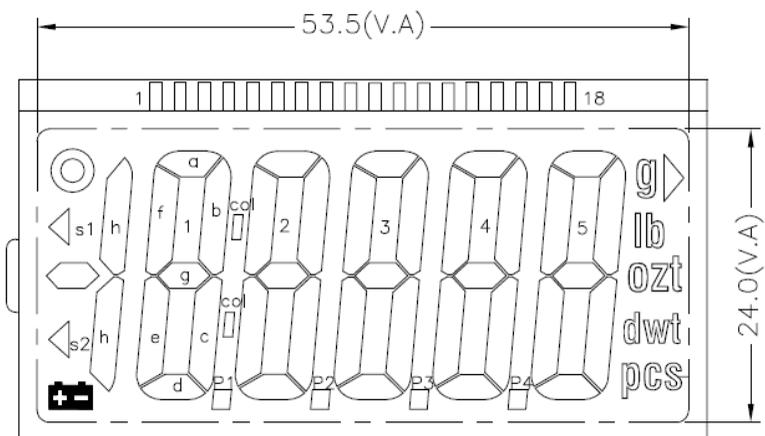
Battery housing cov



2. Remove the two screws holding on the battery cover exposing the battery cavity.
3. Install the 9V alkaline battery.
4. Reinstall the battery housing cover.

*You can also use the adaptor (standard) as power supply.*

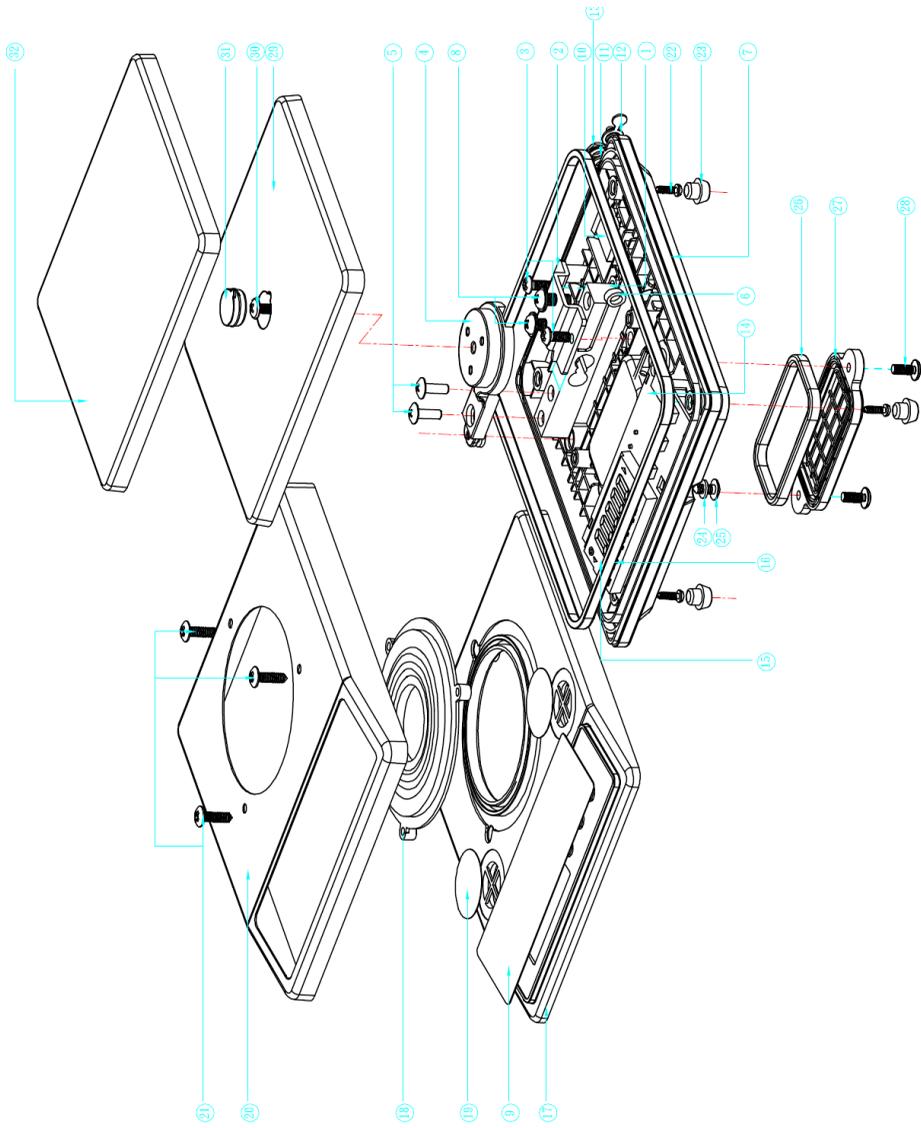
# LCD FORMAT



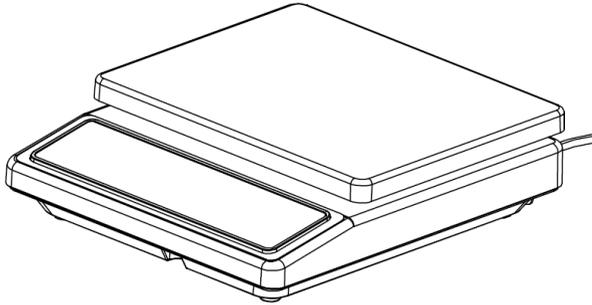
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
COM1	COM1	/	/	/	◎	h	1a	1b	2a	2b	3a	3b	4a	4b	5a	5b	▷	lb
COM2	/	COM2	/	/	S1	+	1f	1c	2f	2c	3f	3c	4f	4c	5f	5c	/	/
COM3	/	/	COM3	/	◊	/	1g	1d	2g	2d	3g	3d	4g	4d	5g	5d	t	OZ
COM4	/	/	/	COM4	S2	P1	1e	col	2e	p2	3e	p3	4e	p4	5e	g	dwt	pcs

When power on, the scale shows non-complete segments. Please check the LCD pin (please refer to above LCD format). Check whether LCD pins are soldered properly or not.

# ASSEMBLY DRAWING

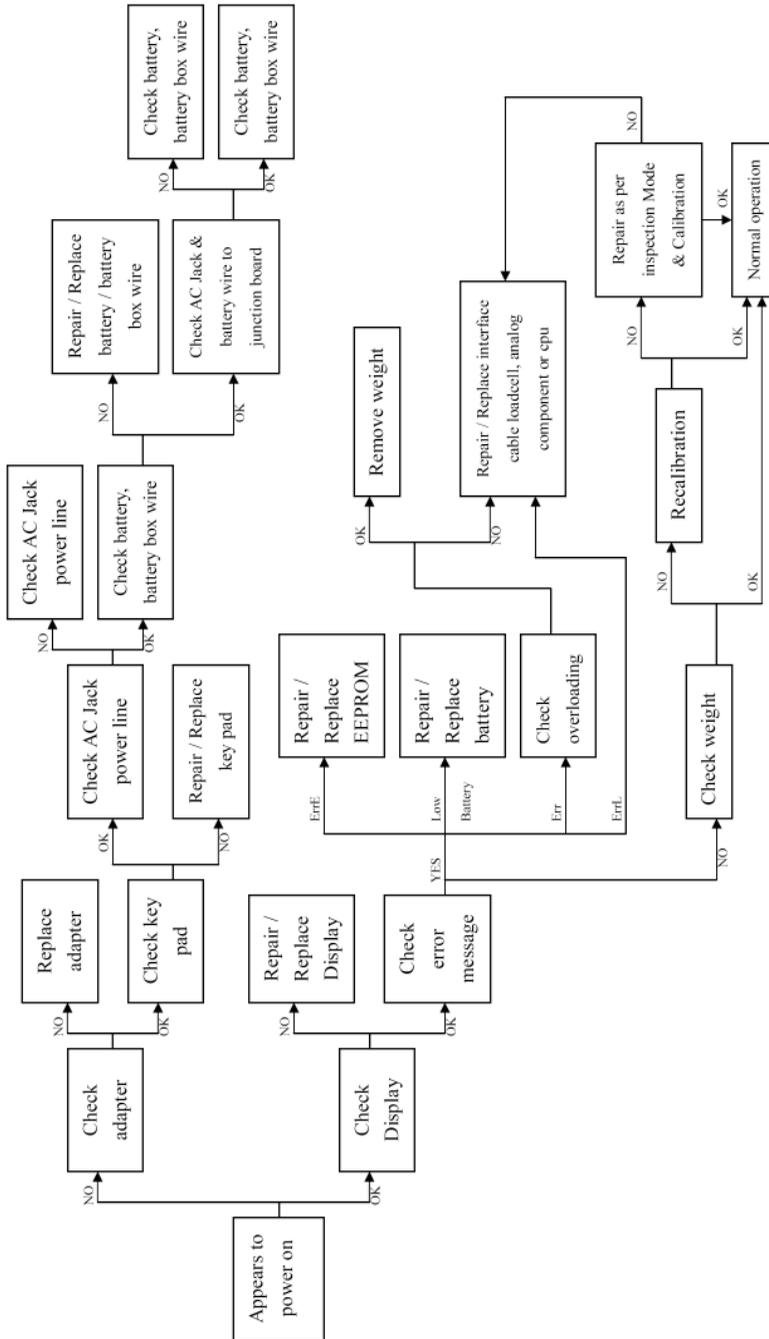


# PART LIST



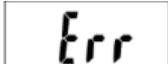
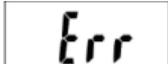
No.	Item	Spec.	Q' TY
1	Loadcell	AL-8185	1
2	L/C spacer	SS-8460	1
3	Washer head screw	M5*0.8*11	2
4	ALU. Bearing plate	SS-8461	1
5	Round head phillips screw	M4*0.7*8	2
6	Core	T-12.7x6.35x7.93	1
7	Plastic Base	BM-8106	1
8	Washer head screw	M5*0.8*11	2
9	Overlay	NP-7381	1
10	Phone Jack	SCJ-368	1
11	Plastic washer	WS-06D-N2B	1
12	Rubber Cap	ST-8290	1
13	Nut for phone jack	M6	1
14	PCB	CH-8414	1
15	LCD	CD-042H	1
16	Waterproof ring	ST-8284	1
17	Plastic Cover	CR-8173	1
18	Corregated sheet	ST-8285	1
19	Waterproof breachable fabric	Φ25*18mm, IP67	2
20	Platform	TO-8080	1
21	Round head phillips screw	4*15	3
22	self-tapping round head screw	M3*12	4
23	Feet	SW-8098	4
24	Rubber washer	RWF3.5-1	1
25	self-tapping round head screw	M4*12	1
26	Waterproof ring for battery cap	ST-8283	1
27	Battery Cover	BT-8077	1
28	self-tapping round head screw	M4*0.7*8	2
29	Plastic Platform	TO-8084	1
30	self-tapping round head screw	M4*0.7*8	1
31	Waterproof cap	ST-8289	1
32	SS platform	TO-015B	1

# TROUBLE SHOOTING



## Trouble Shooting

## ERROR MESSAGE

ERROR MESSAGE	REASON	ACTION
	<p>Low battery: This warning shows that the voltage of batteries is too low to use.</p>	<p>Please replace with new batteries or plug the AC adaptor for operation.</p>
	<p>Overload: The total load exceeds the maximum capacity of the scale.</p>	<p>Please reduce the loading and try again.</p>
	<p>Counting error (too high): Indicates that the signal from the load cells is too high.</p>	<p>This error is normally caused by a serious fault on the scales i.e. a faulty load cell or wiring. Please contact the local Service Representative.</p>
	<p>Counting error (too low): Indicates that the signal from the load cells is too low.</p>	<p>This error is normally caused by a serious fault on the scales such as a faulty load cell or wiring. Please contact the local Service Representative.</p>

