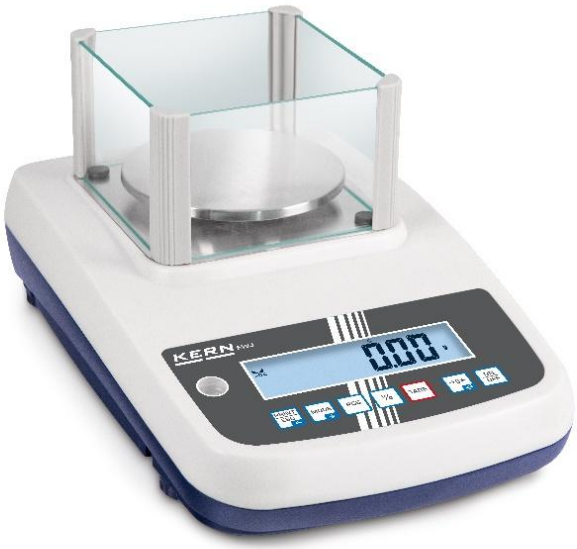
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Servicemanual
Precision balance

KERN TEWJ-1M-A

Version 1.0
12/2025
GB



GB

KERN TEWJ-B

Version 1.0 08/2025

Servicemanual

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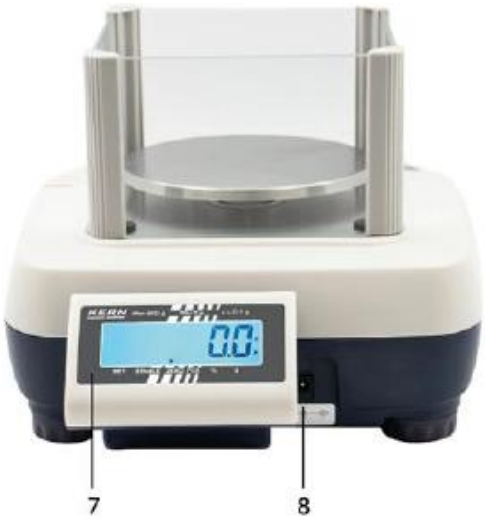
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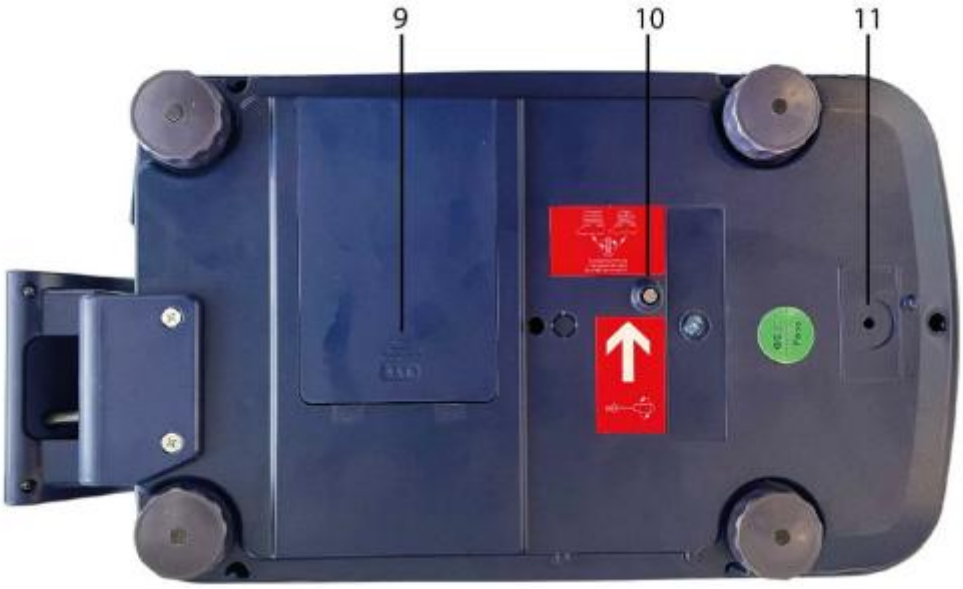
1 Technical data

KERN	EWJ 600-1M
Item number / type	TEWJ 600-1M-A
Readability (d)	0,1 g
Weighing range (max)	600 g
Reproducibility	0,1 g
Linearity	± 0,3 g
Settling time (typical)	2 s
Calibration value (e)	0,1 g
Calibration class	II
Minimum weight (min)	0,5 g
Smallest part weight when counting parts under laboratory conditions*	200 mg
Smallest part weight when counting parts under normal conditions**	2 g
Warm-up time	30 min
Weighing units	g
Air humidity	80 %
Permissible ambient temperature	15 °C ... 35 °C
Input voltage Device	12 V DC, 500 mA
Input voltage power supply unit	100 V - 240 V, 50 / 60 Hz
Battery operation (option)	Operating time 57 h (backlight off) Operating time 32 h (backlight on) Charging time approx. 6.5 h
Auto off (battery)	selectable 30 s; 1 / 2 / 5 / 30 / 60 min
Housing dimensions	220 x 340 x 180 mm
Weighing plate, stainless steel	Ø 120 mm
Net weight (kg)	3,2

2 OVERALL VIEW







Pos.	Designation	Pos.	Designation
1	Windshield	**7**	Rear Display
2	Weighing plate	**8**	Mains adapter connection
3	Levelling screw	**9**	Battery case
4	Bubble level	**10**	Transport lock
5	Keyboard	**11**	Adjustment switch
6	Display		

3 INSTALLATION

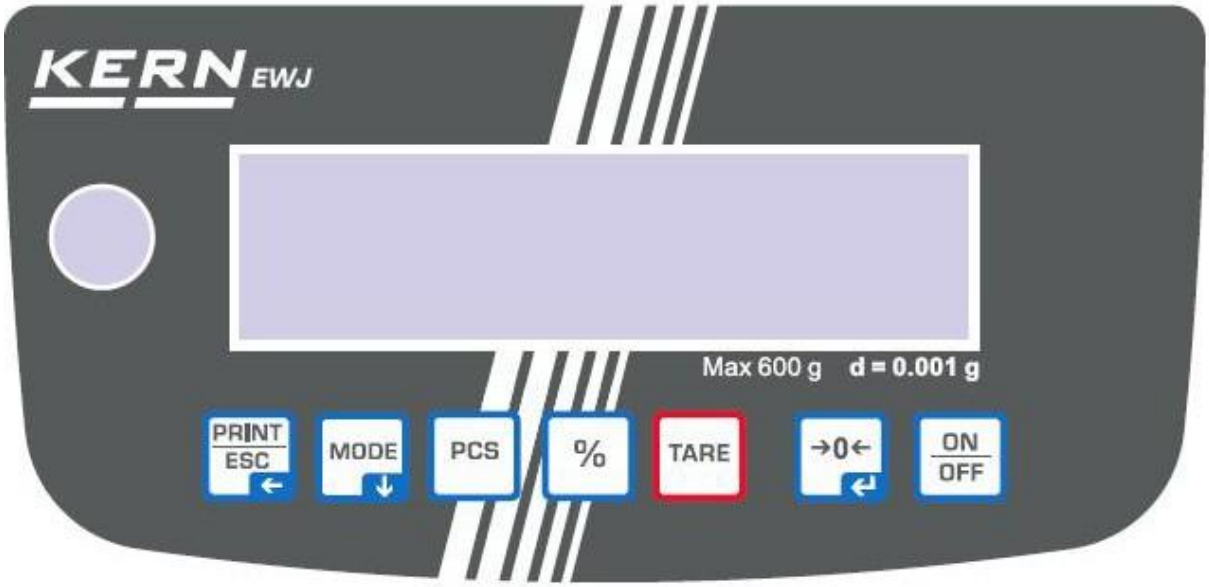
- Remove transport lock from bottom of the scale base



- Place the scale on a level surface
- Install the plastic pan into holder
- Fix the pan with hexagon screw
- Install the stainless-steel pan on top of the plastic pan

4 DESCRIPTION

Key Board

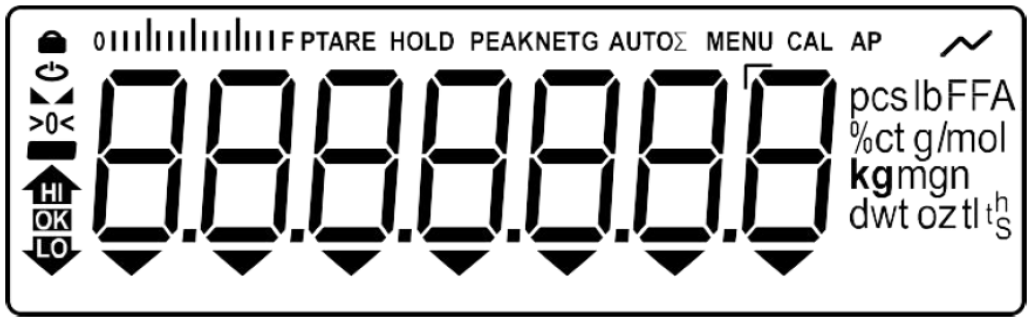


Button	Name	Function in Operating mode	Function in Menu
PRINT ESC	**PRINT/ESC**	➢ Calculate weighing data via interface	➢ Exit menu / back to weighing mode ➢ Menu level back
MODE	**MODE**	➢ Switch weighing unit	➢ Navigation key
PCS	**PCS**	➢ Counting	➢ Navigation key
%	**%**	➢ Percent weighing ➢ Long press of [%] button to activate internal calibration for Model KIB24	➢ Navigation key ➔
TARE	**TARE**	➢ Taring	➢ Navigation key
→0←	**ZERO**	➢ Zeroing	➢ Select menu item ➢ Confirm selection
ON OFF	**ON/OFF**	➢ Switch on/off (press button long time) ➢ Switch on/off the display background illumination (press button short time)	

Numerical input

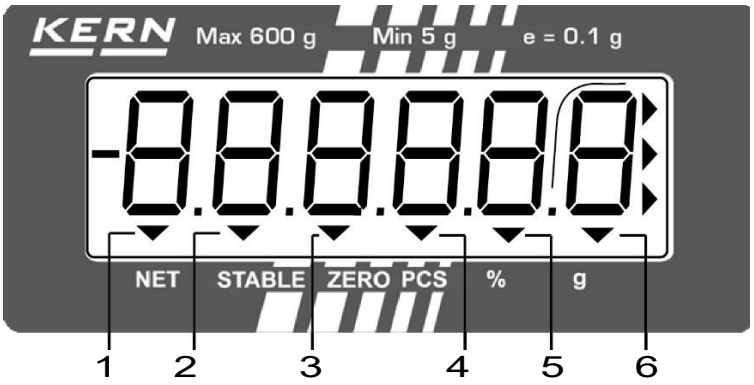
Button	Designation	Function
PCS	Navigation key	Select password
		Confirm entry. Press button repeatedly for every digit. Wait until the numeric input window extinguishes.
%	Navigation key →	Select password
		Confirm entry. Press button repeatedly for every digit. Wait until the numeric input window extinguishes.
MODE	Navigation key	Reduce flashing password (0 – 9)
TARE	Navigation key	Increase flashing password (0 – 9)

Display



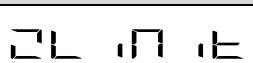
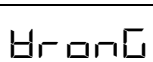
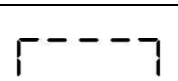
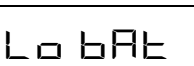
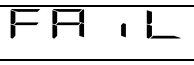
Display	Function
	Stability display
>0<	Zero display
	Minus display
OK	Tolerance marks for check weighing
0 F	Bar graph display Indicates how much the weighing plate is loaded with respect to the maxi- mum weighing range
PTARE	PRE-Tare enabled
HOLD	Data-Hold enabled
NET	Display net weight value
G	Display gross weight value
Σ	Weighing data can be found in the sum memory
AP	Autoprint enabled
Units display / Pcs/ %	Options g, kg or Application icon (PCS) for piece counting Or (%) for determination for percentage

Additional display



No.1	Net weight value display active
No.2	Stability display active
No.3	Zero display active
No.4	Application icon [**Pcs**] for piece counting
No.5	[%] for percentage determination
No.6	Unit display g

5 ERROR CODES

Error message	Description
	Zero setting range exceeded
	Zero setting range not achieved
	Load instable
	Adjustment error
	Underload
	Overload
	Capacity of batteries / rechargeable batteries exhausted
	Calibration Error

6 TROUBLE SHOOTING

Problem	Possible cause	Common solutions
Display is blank, No turn-on test	Mains power is turned off, Power supply not plugged in, Power supply faulty, Internal battery not charged, Display turned off	Check if the scale is connected to power. Verify the voltage going to the scale matches the power supply labels on the power module or scale.
Error message or blank display after turn-on test	Pan not installed Unstable weight Load Cell damaged Mechanics damaged	Check if the pan is installed correctly. Try turning the scale off and on again.
OL or FULL appears on display	Maximum capacity exceeded Load Cell or mechanics damaged Power supply faulty	Check if the pan is installed correctly. Try turning the scale off and on again.
Display is unstable	Drafts or air currents Obstruction under pan Sample is moving (animal weighing) Vibrations through table Temperature changed dramatically Power supply faulty	Verify the scale is in an acceptable location and on a good table. Verify the power supply is correct for the scale.
Weight value incorrect	Calibration error, Recalibrate Linearity error, set Linearity Unit calibrated with inaccurate weight Balance not level Obstruction between sample and cover Wrong unit of weight displayed	Calibrate again, paying special attention to the mass used, the stability of the scale, and the weighing units required. If linearity can be set by the user, it will be described in the user manual. Check pan is installed correctly. Verify installation is acceptable.
Cannot use Full Capacity	Overload Stops hitting pan support or hitting bottom of load cell Shipping screw not removed if applicable Electronic problem on A/D Parameters set incorrectly Load Cell or mechanics Damaged	Look for obstruction under pan, shipping screws, and verify pan installation. Check the weighing units used.
Not Linear	Overload stops hitting too soon Load cell or mechanics damaged A/D damaged	Look for obstruction under pan, shipping screws, and verify pan installation. If linearity can be set by the user, it will be described in the user manual.
Off Center Loading error	Adjust mechanics Overload Stops not correct Load Cell damaged	Look for obstruction under pan, shipping screws, and verify pan installation.
Battery will not charge	Mains voltage not present or too low Charging circuit failure Battery Failure	Verify the batteries are rechargeable types. Check power supply voltage is correct.

7 SETUP MENU

Enter the Menu

1 Press and hold the TARE and ON/OFF keys simultaneously to enter the setup menu in normal weighing mode.
2 Wait until the first menu item <SEt uP> followed by <cAL> is displayed

Choose the Menu

- Press MODE or TARE to switch through the individual menu blocks

Enter the Selected Menu

- Press →0← to confirm/enter the selected item

Escape from the Menu

- Press PRINT/ESC to return to weighing mode

Level 1	Level 2	other levels / description		
		Description		
cAL Adjustment	cALEHt	➔ External adjustment		
	cAL int	➔ Internal adjustment		
	cALEud	➔ External adjustment, user-defined		
	GrAAdJ	➔ Gravity constant adjustment site		
	GrAuSE	➔ Gravity constant installation site		
coN Communication	rS232 ▯ uSb-d	bAud	1200	
			2400	
			4800	
			9600	
			14400	
			19200	
			38400	
			57600	
			115200	
			128000	
			256000	
		dAtA	7db itS	
			8db itS	
		PAr itY	nonE	
			odd	
			EUEn	
		StoP	1Sb it	
			2Sb itS	
		hAndSh	nonE	
		Protoc	AcP	
	bt-S	btSEt	on,oFF Bluetooth on / off	
		btnAME	Device name displayed in the Bluetooth network	
Pr int Data output	intFcE	rS232	RS232 interface	
		uSb-d	USB interface	
	SuM	on	Switch on / off add-up mode	
		oFF		
	PrModE	tr iG	MAnuAL	on,oFF Data output by pressing the **PRINT** button

			AutoPr		on,oFF Automatic data output with stable and positive weighing value. Another output only after zero display and stabilization, depending on the settings < ZrAnGE >, selectable **(off, 1, 2, 3,4,5)**. < ZrAnGE > defines the factor for d. This factor multiplied with d results in the threshold; when it is exceeded, a value cannot more be considered as stable.	
			cont	oFF	Continuous data output	
				on	SPEEd	Setting output interval
					ZEro	on,oFF 0 (unloaded) also transmit continuously
					StAbLE	on,oFF Transmit stable values only
		WE IGht	SGLPrt		on,oFF	Displayed weight value is transmitted
			GntPrt		GrossS	on,oFF
					nEt	on,oFF
					tArE	on,oFF
					FormAt	LonG (detailed measu- rement protocol)
						short (standard mea- surement protocol)
		LAYout	none		on,oFF Standard layout	
			USEr		ModEL	on,oFF Output model designation of the scale
					SEr IAL	on,oFF Output serial number of the scale
		rESEt	Delete settings			
bEEPEr Acoustic signal	KEYS	on/oFF	Switch on / off acoustic signal by pressing button			
	chECK	ch-oK		oFF	Acoustic signal off	
				SLoW	Slow	
				Std	Standard	

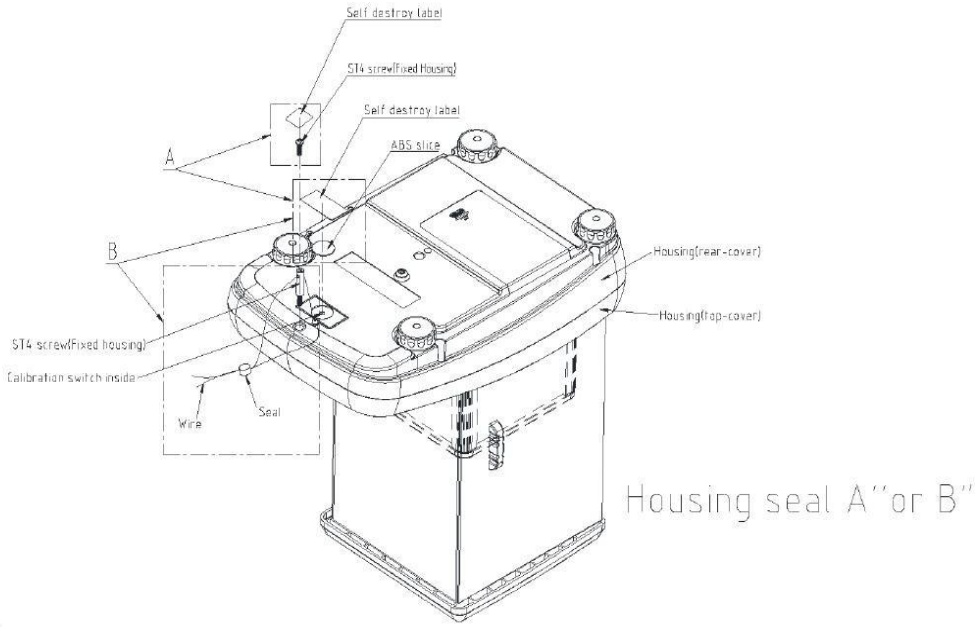
			FASt	Fast
			cont.	Continuous
		ch-Lo	oFF	Acoustic signal off
			SLoW	Slow
			Std	Standard
			FASt	Fast
			cont.	Continuous
		ch-hi	oFF	Acoustic signal off
			SLoW	Slow
			Std	Standard
			FASt	Fast
			cont.	Continuous
AutoFF Automatic switch-off function in rechargeable battery operation	NodE	oFF	Automatic switch-off function switched off	
		Auto	The balance is automatically switched-off according to the time without load change or without operation defined in menu item < tiME >	
		onLY0	Automatic switch-off only with zero display	
	tiME	30S 1M in 2M in 5M in 30M in 60M in	After the set time without load change or operation the balance will switch off automatically	
bLiGht Display background illumination	NodE	ALWAYS	Background lighting of display is switched on permanently	
		tiMEr	The background illumination is automatically switched-off according to the time without load change or without operation defined in menu item < tiME >	
		nobL	Display background illumination always switched off	
	tiME	5S 10S 30S 1M in 2M in 5M in 30M in	Definition, after which time the background illumination is automatically switched-off without load change or without operation.	
tArErG Taring range	100% ▯ 10%	Definition max. taring range, selectable 10% - 100%.		
ZtrAcK	on	Automatic zero tracking [≤3d]		

Zerotracking	oFF		In the event that small quantities are removed or added to the material to be weighed, incorrect weighing results can be displayed due to the “stability compensation“. (e.g. slow flow of liquids from a container placed on the balance, evaporating processes). When apportioning involves small variations of weight, it is advisable to switch off this function.
UnitS Units	available weighing units / application units	on,oFF Using this function you can define which weighing units are available in the application-specific menu < UnitS>. The units selected by <on> are available in the application-specific menu.	
ModE Weighing applications	WEIGH	Weighing	
	count	Counting	
	check	Check weighing	
rESEt	Reset balance settings to factory settings		

8 SERVICE MENU

Enter service menu

Note: To enter the service menu, you have to press the calibration switch, which is located on the bottom of the scale



- Start the scale and **during self-test** press the calibration switch and then press and hold the TARE and ON/OFF keys simultaneously to enter the service menu
- Wait until the first menu item < SEr > followed by < AdJUSt > is displayed
- Press MODE or TARE to switch through the individual menu blocks
- Press →0← to confirm/enter the selected item
- Press PRINT/ESC to return to weighing mode

Menu	Sub Menu			Description
USEr	AdJUSt	CAL	CAL EHt	External calibration
			CAL int	Internal calibration ,only for Model : the first alphabet named as E, see the menu typinf > config , the internal calibration is not protected by calibration switch
			CAL EUd	External calibration with user-defined adjustment weight
			GrAAdJ	To set the adjustment location gravity
			GrAUSE	To set the place of location gravity
			CALoUr *	Overwrite the value of the internal adjustment weight
		L inEAr	3Po int	3 point calibration
			6Po int	6 point calibration
		ZEro		Reserved function
		crEEP		Reserved function
	oUErLd	MEM		Manual counts
		oUEr		Overload counts
	tYP inF	conF iG		**Model selection E600.2M/E6000.1M/E600.2S/E6000.1S/P120.3/P200.3/P300.3/P600.2/P600.3/P1200.2/P2000.2/P3000.2/P6000.1/P6000.2/
	inFo	AdUALU		To show the internal counts
		SEr nAL		Serial number
		UEr		To show the application version
		UErA		To show the approved software version V2.00
	SALE n	SALE n		Higher resolution
		SALE 9		Lower resolution
	rESEt			Reset to factory setting

* Only available from software version V1.26H onwards

Model	Alphabet	Capacity(g)	Decimal places	Approval mode	Readability
E600.2M	E represent Model: KIB24 (Available for internal calibration)	600g	1	M	1
E6000.1M		6000g	0	M	1
E600.2S		600g	1	M	1
E6000.1S		6000g	0	M	1

9 CALIBRATION

9.1 Internal calibration

Method 1
When powered on, the balance will perform the internal calibration.
The motor noise of the loading system for the internal adjustment weight can be heard.
The balance carries out a self-test, followed by the internal adjustment.
As soon as the weight display appears, the balance is ready for weighing.

Method 2

1. Press and hold the TARE and ON/OFF keys simultaneously to enter the setup menu in normal weighing mode.
2. Wait until the first menu item <SEt uP> followed by <CAL> is displayed
3. Press →0← to enter calibration, display shows <CAL int>
4. Press →0← to confirm and enter to internal calibration. There is no need to press the calibration switch.Tthe motor noise of the loading system for the internal adjustment weight can be heard. The balance carries out a self-test, followed by the internal adjustment. As soon as the weight display appears, the balance is ready for weighing.

9.2 External calibration

1. Enter the service menu (see chapter 6, SERVICE MENU)
2. Wait until the first menu item <AdJUSt> is displayed
3. Press  to enter calibration, display shows <cAL>
4. Press  to confirm, display shows <cALEHt>
5. Press  to confirm
6. The motor noise can be heard and < in- cAL> is displayed followed by the first selectable adjustment weight
7. Press  to change the desired adjustment weight
8. Press  to confirm, <2Er o> followed by <PtLd> is displayed. Then the weight value of the adjustment weight to be placed will be displayed
9. Load the adjustment weight on the pan
10. Once <rEMULd> is displayed, remove the adjustment weight
11. The motor noise can be heard and the display shows <EH-cAL>
12. After successful adjustment the balance displays <PASS> and then returns to the menu displaying <cALEHt>
13. In case of an adjustment error (e.g. objects on the weighing plate) the display will show the error message <Hr onG >. Switch off balance and repeat the adjustment process.

From software version V1.26**H** onwards:
To **overwrite the internal adjustment weight** value, use the option cALoUr in the service menu (see chapter 6, SERVICE MENU)

9.3 External calibration with user-defined adjustment weight

1. Enter the service menu (see chapter 6, SERVICE MENU)
2. Wait until the first menu item < AdJUSt> is displayed
3. Press 

to enter calibration, display shows < CAL>
4. Press 

to confirm, display shows <CALEHt>
5. Press 

to switch to < CALEUd>
6. Press 

to confirm. The motor noise can be heard and the display shows < in- CAL>
7. The numeric input window for the weight value of the adjustment weight appears. The active digit is flashing
8. Press 

to change the value of the active (flashing) digit
9. Press 

to move digits left, or press 

to move digits right
10. Press 

to confirm, < ZEro> followed by <PLd> is displayed. Then the weight value of the adjustment weight to be placed will be displayed
11. Load the adjustment weight on the pan
12. Once <rEMUd> is displayed, remove the adjustment weight
13. The motor noise can be heard and display show < EH-CAL>
14. After successful adjustment the balance displays <PASS> and then returns to the menu displaying <CALEUd>
15. In case of an adjustment error (e.g. objects on the weighing plate) the display will show the error message < Hr onG >. Switch off balance and repeat the adjustment process.

9.4 Linear calibration with 6 points

1. Enter the service menu (see chapter 6, SERVICE MENU)
2. Wait until the first menu item <ADJUST> is displayed
3. Press 

to enter calibration, display shows <CAL>
4. Press 

to switch to <L inEAr>
5. Press 

to confirm, <3Po int> is displayed
6. Press 

to switch to <6Po int>
7. Press 

to enter 6-point linear calibration
8. Ensure that the weighing plate is empty
9. Display shows <in- CAL> followed by <ZEro> and the motor noise can be heard
10. Display shows 1/6 of the capacity
11. Place the first calibration weight (1/6 of the capacity) on the pan
12. Display shows <ZEro>
13. Remove the first calibration weight from the pan
14. Display shows 1/3 of the capacity
15. Place the second calibration weight (1/3 of the capacity) on the pan
16. Display shows <ZEro>
17. Remove the second calibration weight from the pan
18. Display shows 1/2 of the capacity
19. Place the third calibration weight (1/2 of the capacity) on the pan
20. Display shows <ZEro>
21. Remove the third calibration weight from the pan
22. Display shows 2/3 of the capacity

23. Place the fourth calibration weight (2/3 of the capacity) on the pan

24. Display shows <CERo>

25. Remove the fourth calibration weight from the pan

26. Display shows 5/6 of the capacity

27. Place the fifth calibration weight (5/6 of the capacity) on the pan

28. Display shows <CERo>

29. Remove the fifth calibration weight from the pan

30. Display shows full capacity

31. Place the sixth calibration weight (max load) on the pan

32. Display shows <CERo>

33. Remove the sixth calibration weight from the pan

34. Display shows < in-cAL> and the motor noise can be heard.

35. Once finished, -PASS- is displayed and the scale returns to the menu showing <GPo int>.

Table 1: Required calibration weights

	300 g	600 g	3000 g	6000 g
Load1 (1/6 Max)	50 g	100 g	500 g	1000 g
Load2 (1/3 Max)	100 g	200 g	1000 g	2000 g
Load3 (1/2Max)	150 g	300 g	1500 g	3000 g
Load4 (2/3 Max)	200 g	400 g	2000 g	4000 g
Load5 (5/6 Max)	250 g	500 g	2500 g	5000 g
Load6 (Max)	300 g	600 g	3000 g	6000 g

9.5 Linear calibration with 3 points

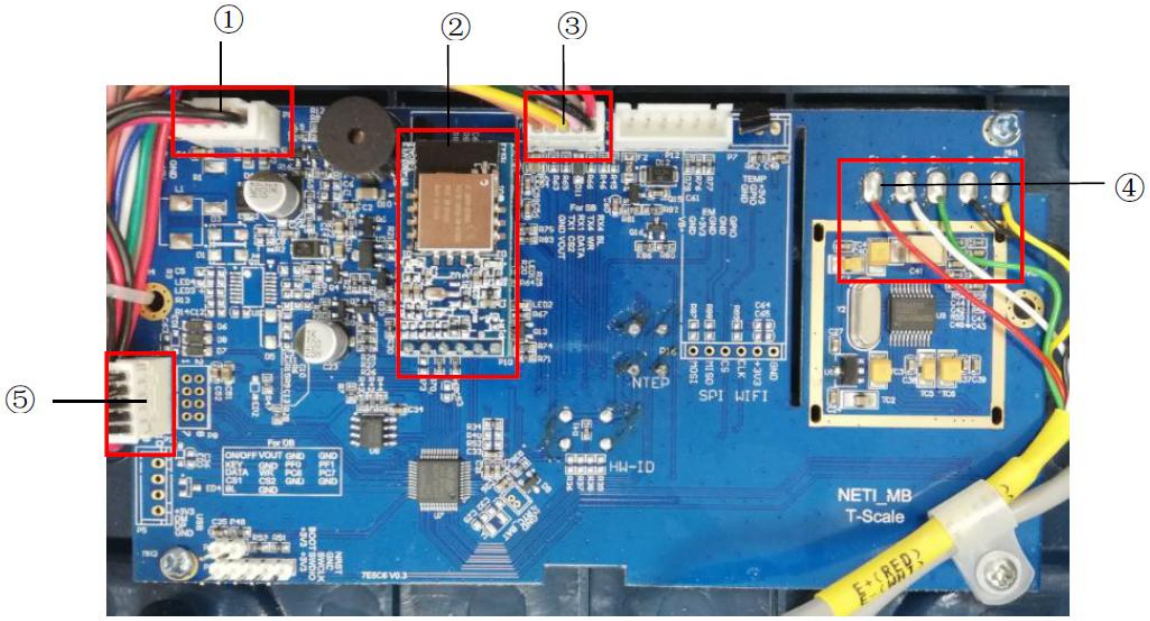
1. Enter the service menu (see chapter 6, SERVICE MENU)
2. Wait until the first menu item < AdJUSt > is displayed
3. Press  to enter calibration, display shows < CAL >
4. Press  to switch to < L inEAr >.
5. Press  to confirm, < 3Po int > is displayed
6. Press  to enter 3-point linear calibration
7. Ensure the weighing plate is empty
8. Display shows < in- CAL > and the motor noise can be heard
9. Display shows 1/3 of the capacity
10. Place the first calibration weight (1/3 of the capacity) on the pan
11. Display shows <ZEro>
12. Remove the first calibration weight from the pan
13. Display shows 2/3 of the capacity
14. Place the second calibration weight (2/3 of the capacity) on the pan
15. Display shows <ZEro>
16. Remove the second calibration weight from the pan
17. Display shows max load
18. Place the third calibration weight (max load) on the pan
19. Display shows <ZEro>
20. Remove the third calibration weight from the pan
21. Display shows < in-CAL > and the motor noise can be heard
22. Once finished, -PASS- is displayed and the scale returns to the menu showing <3Po int >

Table 2: Required calibration weights

	300 g	600 g	3000 g	6000 g
Load1 (1/3 Max)	100 g	200 g	1000 g	2000 g
Load2 (2/3 Max)	200 g	400 g	2000 g	4000 g
Load3 (Max)	300 g	600 g	3000 g	6000 g

10 PARTS REPALCEMENT

10.1 Main Board Replacement



No.	Description
1	Power In – Cable from the Power Supply to the main board
2	Bluetooth module
3	Serial port connector
4	Load cell connection
5	Display board connector

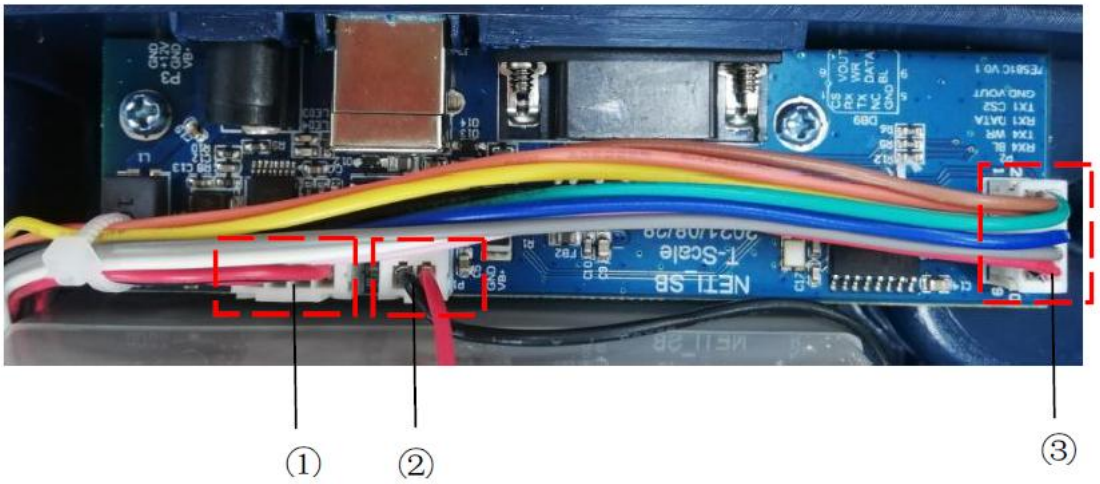
Steps:

1. Remove 4 screws on the bottom of scale
2. Open top cover of scale, the main board is located in the bottom cover
3. Disconnect all connectors from main board
4. Remove the 4 screws at main board

Load cell connection

Wire Color	Red	White	Green	Black	Yellow
Main board	E+	E-	S+	S-	SH

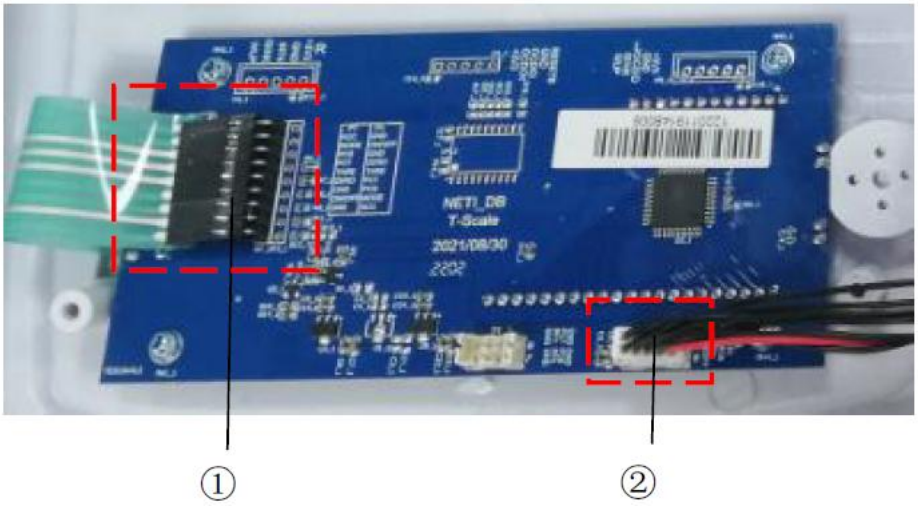
10.2 Interface Board Replacement



No.	Description
1	Power In – Cable from the Power Supply to the interface board
2	Battery connector
3	Serial port connector and remote display cable

1. Remove 4 screws on the bottom of the scale
2. Open top cover of scale, the interface board is located in the back of the scale
3. Disconnect all connectors from the interface board
4. Remove the 2 screws of the interface board

10.3 Display Board Replacement



No.	Description
1	Keyboard overlay connector
2	Power In – Cable from the Power Supply to the display board

1. Remove 4 screws on the bottom of the scale
2. Open top cover of the scale, the display board is located within the top cover
3. Disconnect all connectors from display board
4. Remove the 4 screws of the display board

10.4 Load cell assembly Replacement



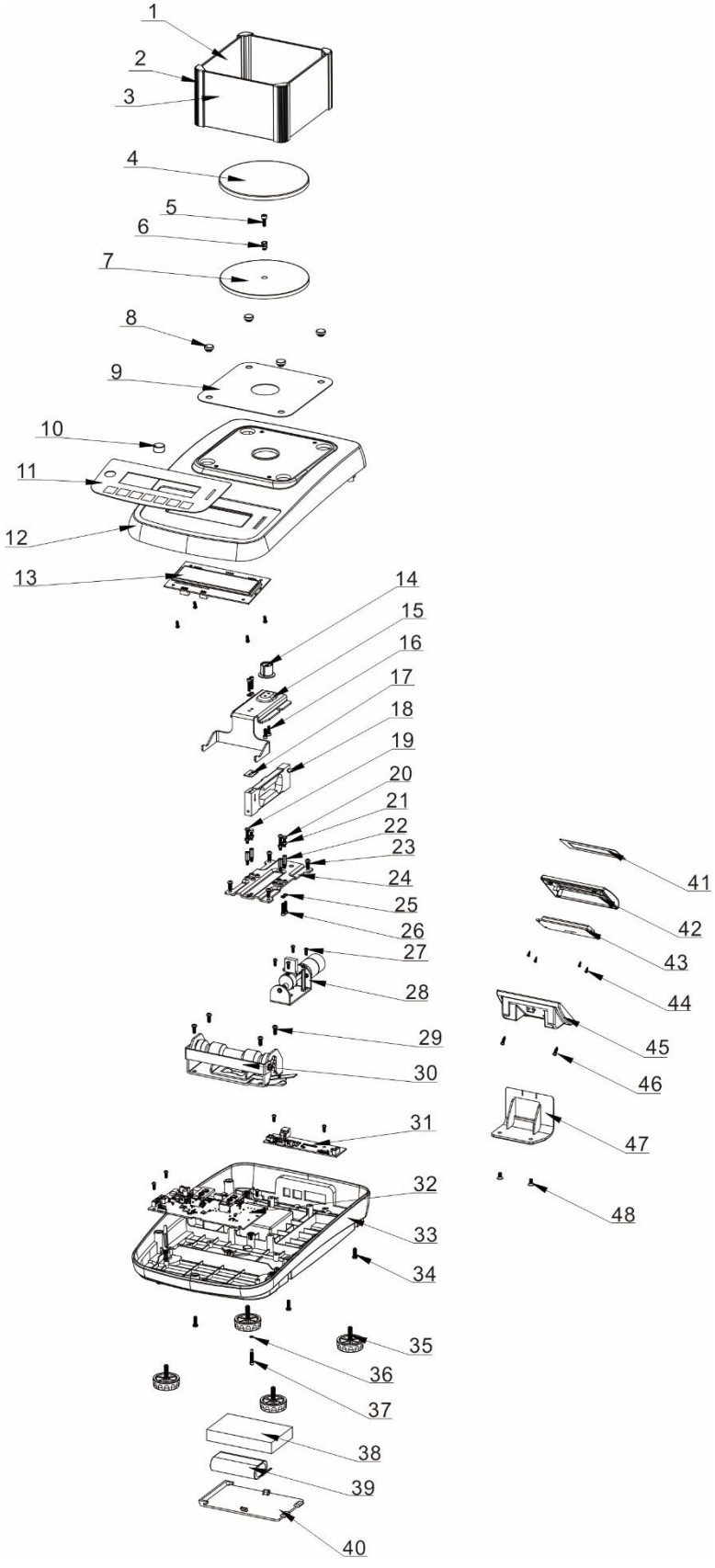
1. Remove 4 screws on the bottom of the scale
2. Open top cover of scale
3. Disconnect the load cell from the main board (soldered)
4. Remove the 4 screws of the load cell assembly

Load cell connection

Wire Color	Red	White	Green	Black	Yellow
Main board	E+	E-	S+	S-	SH

11 EXPLODED DRAWING

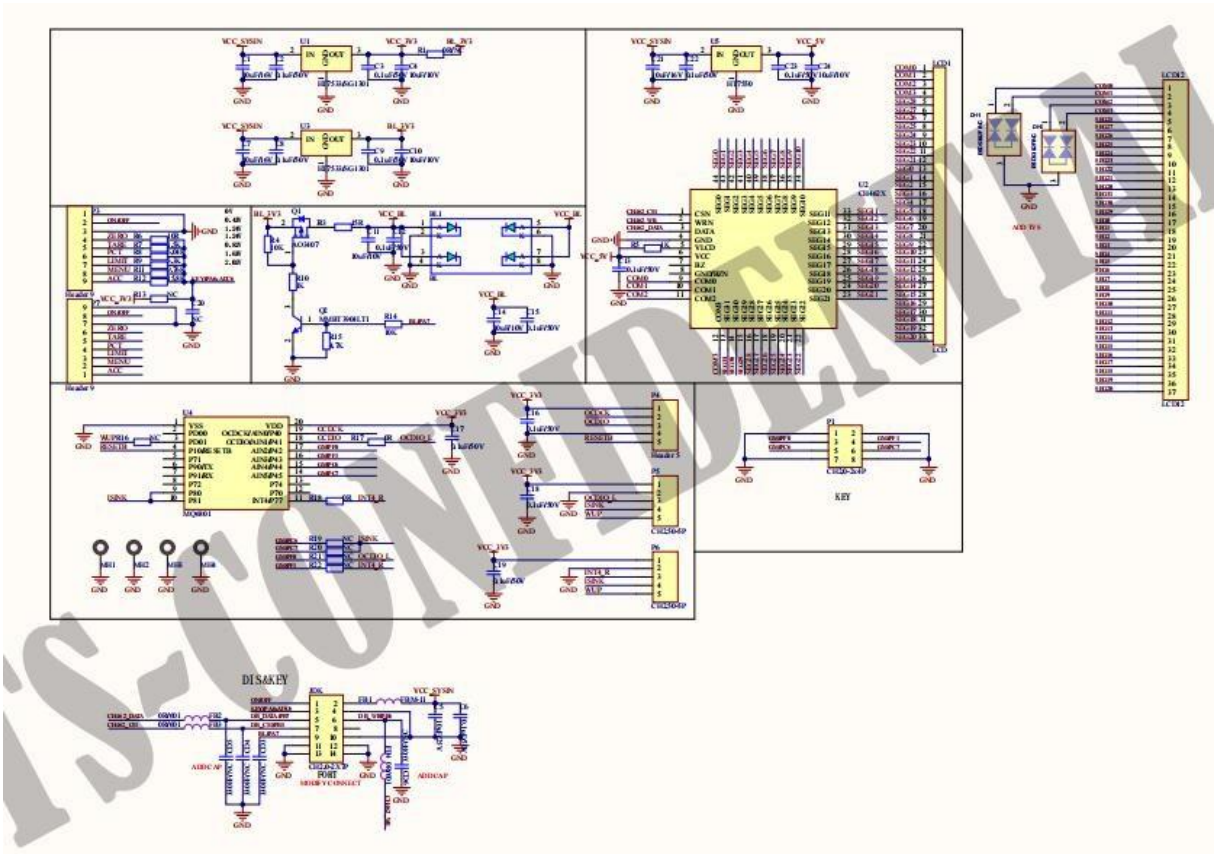
TEWJ-1M-A-600g
(Detachable Wind Shield)

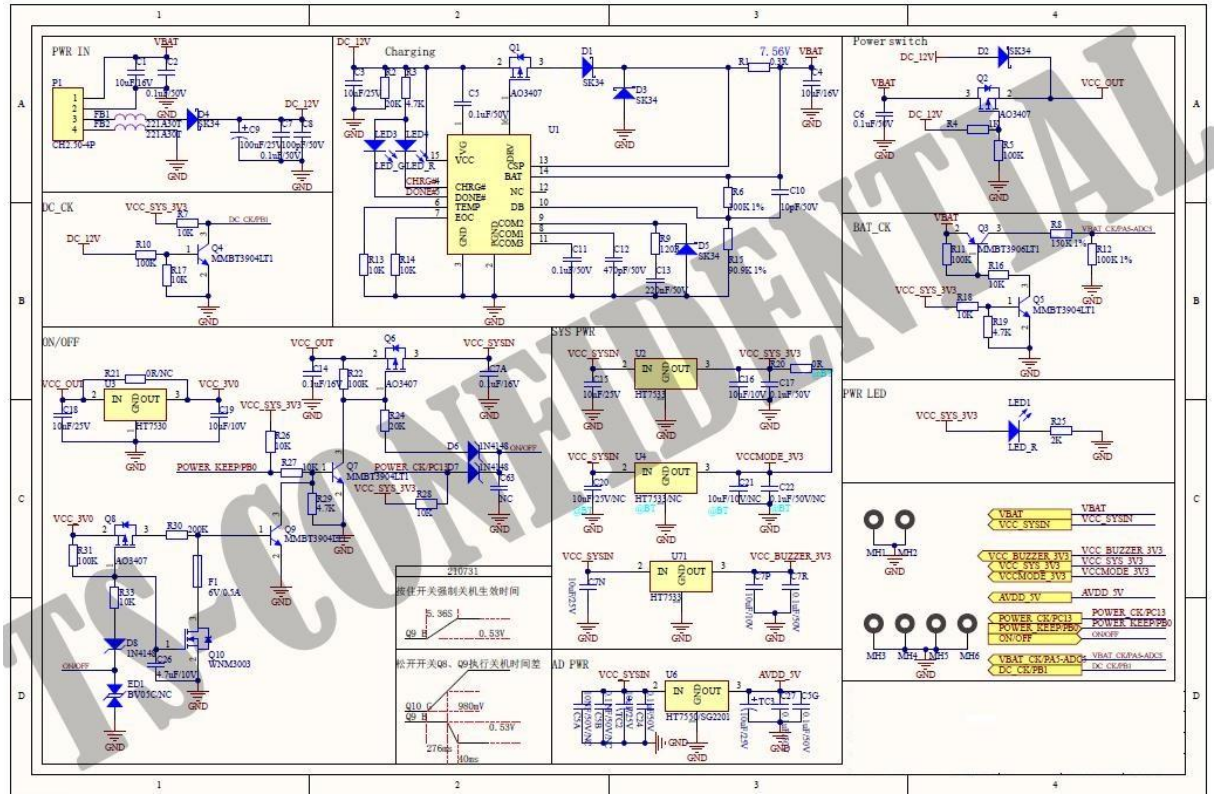


1	Side glass 1	**2**
2	Wind shield pole	**4**
3	Side glass 2	**2**
4	Stainless steel pan	**1**
5	Screw	**1;M4*12**
6	Spring	**1**
7	Plastic pan	**1**
8	Rubber plug	**4**
9	Pan base cover	**1**
10	Level bubble	**1**
11	Overlay	**1**
12	Top cover	**1**
13	Display board	**1**
14	Load cell upper bracket	**1**
15	Bracket support	**1**
16	Screw	**2;M3*10**
17	Load cell gasket	**1**
18	Load cell	**1**
19	Screw	**2;M3*20**
20	Screw	**2;M3*12**
21	Nut	**4;M3**
22	Screw	**4;M3*12**
23	Screw	**4;M4*12**
24	load cell lower bracket	**1**
25	Spring washer	**4;M3**
26	Screw	**4;M3*14**
27	Screw	**7;M3*8**
28	Motor	**1**
29	Screw	**4;M4*10**
30	Weight	**1**
31	Interface PCBA	**1**
32	Main board	**1**
33	Bottom cover	**1**
34	Screw	**5;M4*12**
35	Feet 1	**4**
36	Split ring	**1**
37	Protection screw	**1**
38	Foam	**1**
39	Lithium battery	**1**
40	Battery cover	**1**
41	Rear display overlay	**1**

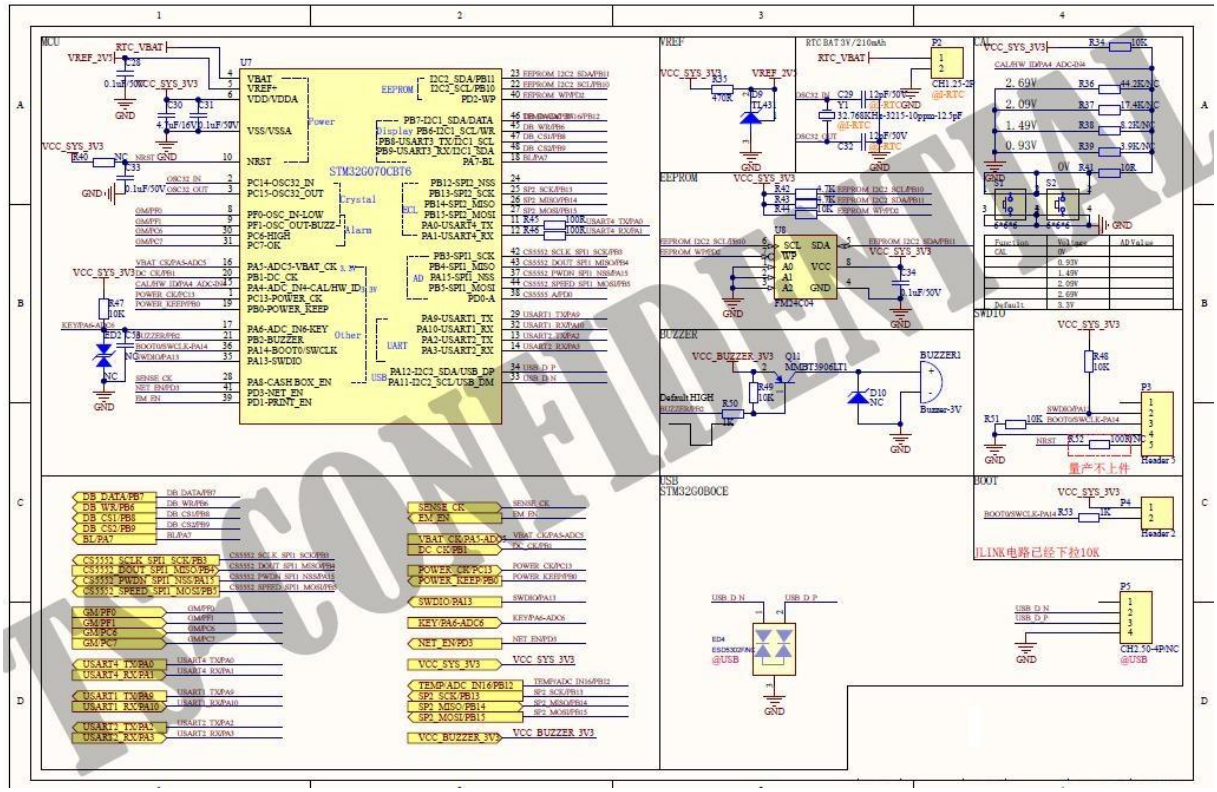
42	Front cover for rear display	**1**
43	Rear display board	**1**
44	Screw	**4;M2*6**
45	Back cover for rear display	**1**
46	Screw	**2;M3*10**
47	Rear display bracket	**1**
48	Screw	**2;M4*8**

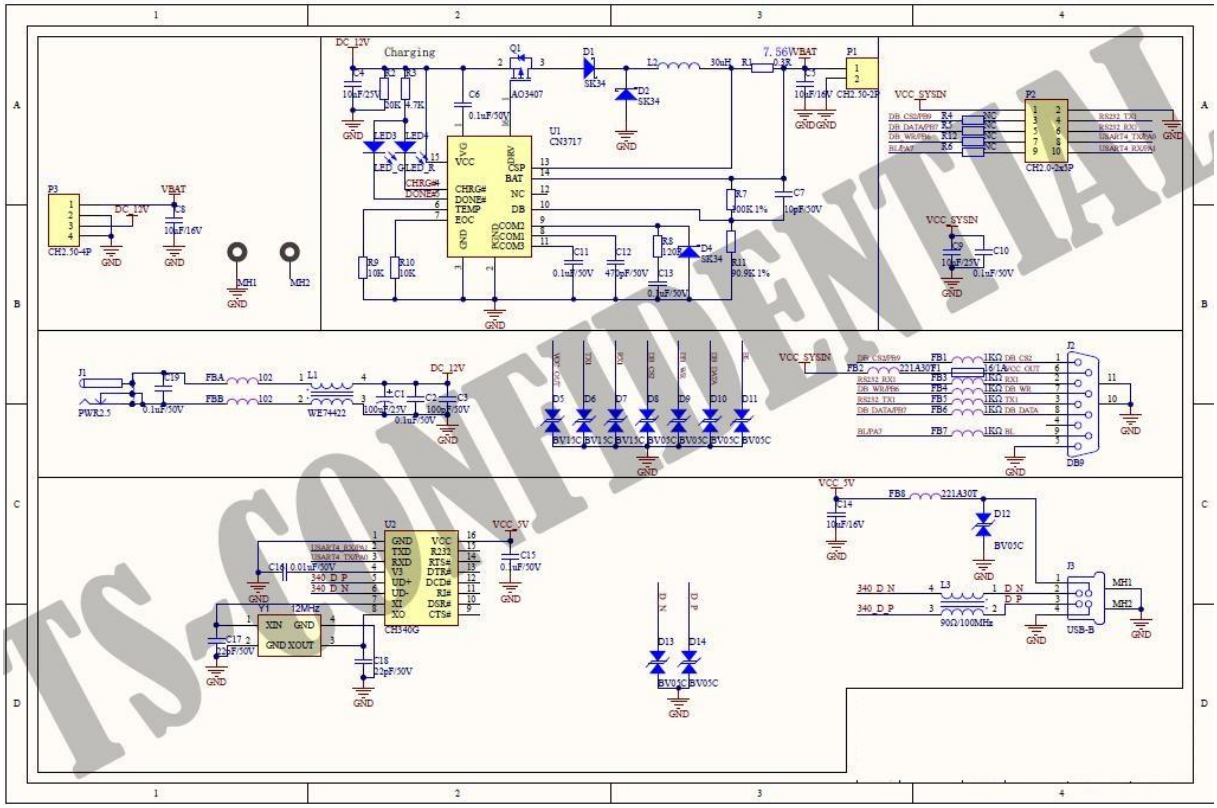
12 SCHEMATIC





IS-CONFIDENTIAL

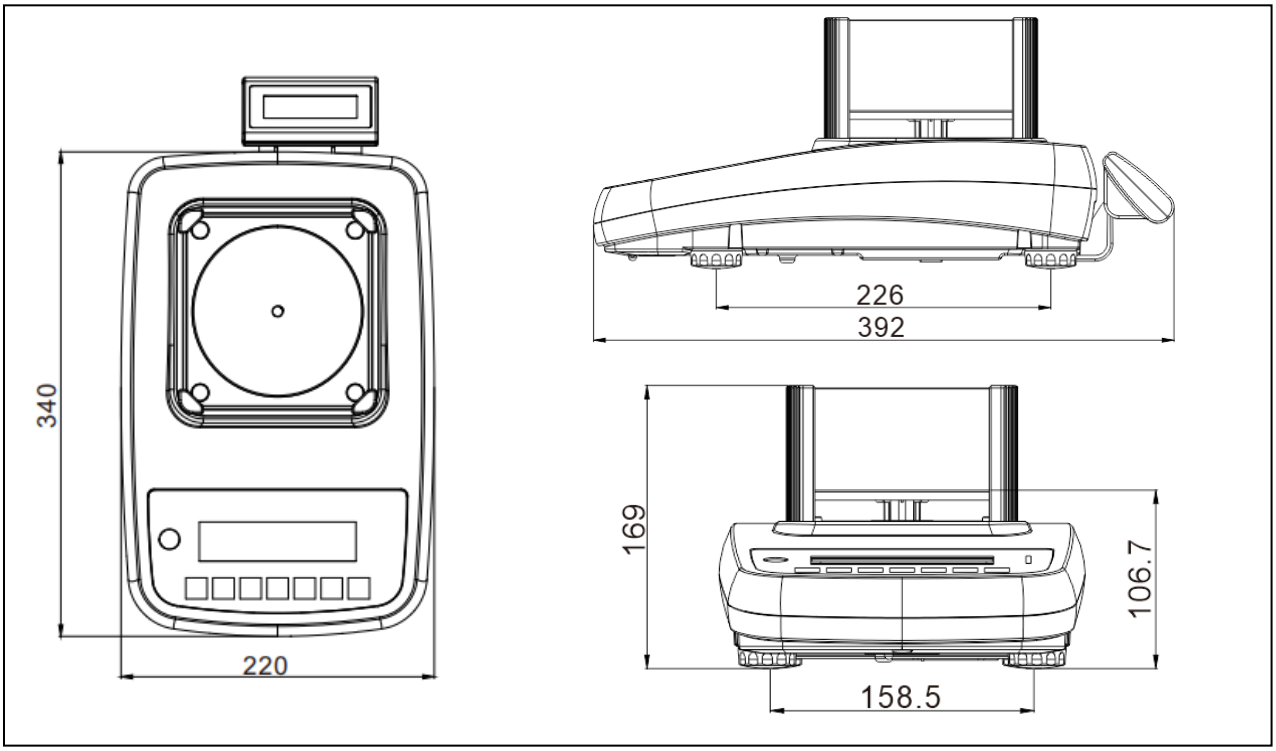




TS-CONFIDENTIAL

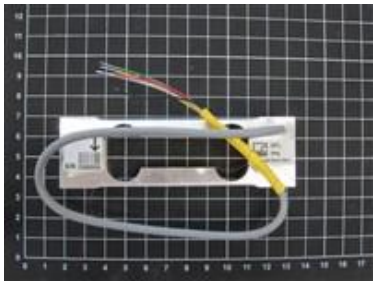
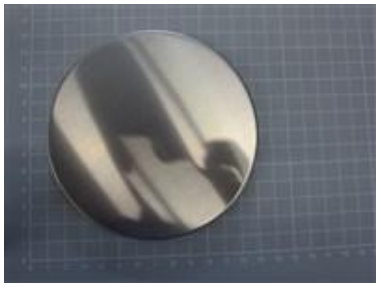
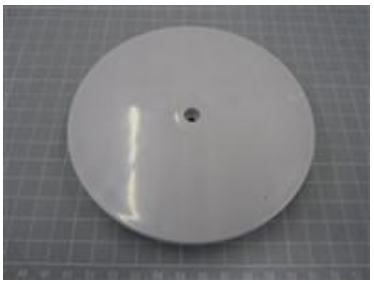
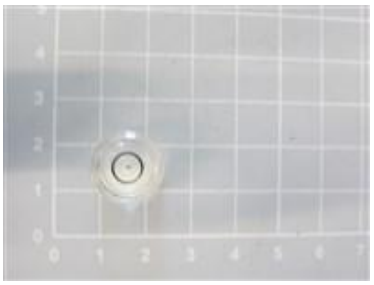
13 DIMENSION (mm)

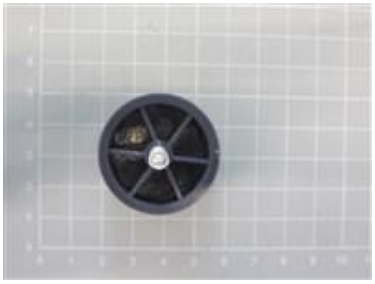
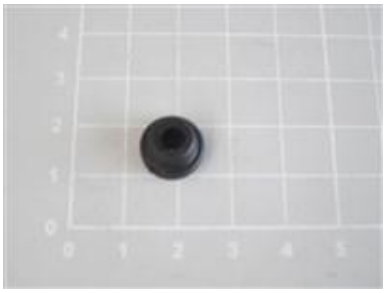
Model: TEWJ-1M-A-600g



14 SPARE PART LIST

TEWJ 600-1M-A

Article no.	Description	Image
EWJ-A04	Protective working cover (1 pieces) A PET; Working dust cover EWJ series	
REWJ-1002	Load cell 600 g HBM SPL/600g Strain gauge	
REWJ-6007	Weighing plate 120 mm	
REWJ-6008	Weighingplate carrier 120 mm	
REWJ-8001	Level indicator	

REWJ-8002	Adjustable foot	
REWJ-9001	Automatic adjustment motor	
RPFB-5001	Power socket for EWJ, PFB	
RPFBA-8001	Draft shield	
RPFBA-8003	Rubber plug	
RTEWJ-2001	LCD Display with board for TEWJ-A, TEWJ-B, TPFB-B	
RTEWJ-2002	Main board for TEWJ-A, TEWJ-B	
RTEWJ-2003	Board, interface Schnittstellenplatine für TEWJ-Serie mit USB- und RS232-Anschluss	

RTEWJ-3001	Second display for TEWJ-A	
RTEWJ-4003	Keyboard overlay for TEWJ-A	
RTEWJ-5001	Connection cable for TEWJ-A, TEWJ-B, TPFB-B	
RTEWJ-9001	Fixing screws / Screws for mounting the weighing plate	
RTEWJ-9003	Transport saftey lock	
YKA-11	Mains adapter (AUS;CH;EURO;UK;US) 12 V, 500 mA; Input: 100-240V~ 50/60Hz 190mA Switching power supply	