

# Rolling Chair Scale Models 6880 & 6880KGEU Operating Instructions



# **EUROPEAN DECLARATION OF CONFORMITY**

Manufacturer: Cardinal Scale Manufacturing Company

PO Box 151

203 East Daugherty

Webb City, Missouri 64870 USA

Telephone No. 417 673 4631 Fax No. 417 673 5001

Product: Non-automatic Weight Indicating Instrument

Model Numbers 758CSV Serial Number EXXXYY-ZZZ where XXX = day of year

YY = last two digits of year ZZZ = sequential number

The undersigned hereby declares, on behalf of Cardinal Scale Manufacturing Company of Webb City, Missouri, that the above-referenced product, to which this declaration relates, is in conformity with the provisions of:

Council Directive 73/23/EEC (19 February, 1993) Low Voltage Directive as amended by Council Directive 93/68/EEC (22 July, 1993)

Test Report Number 0206-1 Cardinal Scale Mfg. Co.

European Standard EN55022: Class B for radiated emissions

European Standard EN61000-4-3: Class A for Radiated EMC

European Standard EN61000-4-6: Class A for Conducted Disturbances

Test Report Number 020424-537 Criterion Technology

The Technical Construction File required by this Directive is maintained at the corporate headquarters of Cardinal Scale Manufacturing Company, 203 East Daugherty, Webb City, Missouri.

Link Yeager

Director, Quality Assurance

### **COMPATIBILITY OF MODULES**

**Ref.: WELMEC 2 (2000)** 

 $Non-Automatic\ Weighing\ Instrument, single-interval.$ 

Non-Automatic Weigning Instrument, single-inter	ri vai.
Certificate of EU Type-Approval No:	TAC: UK2655
INDICATOR A/D (Module 1)	Type: 758CSV
Accuracy class according to EN 45501 and OIML R76: Maximum number of verification scale intervals (n <sub>max</sub> ): Fraction of maximum permissible error (mpe): Load cell excitation voltage:	Class <sub>ind</sub> (I, II, III or IIII) III  n <sub>ind</sub> 5000  p <sub>1</sub> 0.5  U <sub>exc</sub> (Vdc) 5
Minimum input-voltage per verification scale interval: Minimum load cell impedance: Coefficient of temperature of the span error: Coefficient of resistance for the wires in the J-box cable:	$\begin{array}{cccc} \Delta U_{min} & (\mu V) & 1.2 \\ R_{Lmin} & (\Omega) & 87 \\ \text{Es} & (\% / 25^{\circ}\text{C}) & 0.006 \\ \text{Sx} & (\% / \Omega) & 0.0152 \end{array}$
Specific J-box cable-Length to the junction box for load cells: Load cell interface: Additive tare, if available: Initial zero setting range: Temperature range: Test report (TR), Test Certificate (TC) or OIML Certificate of Conformity: LOAD RECEPTOR (Module 2)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Construction:	Platform
Fraction of mpe: Number of load cells: Reduction ratio of the load transmitting device: Dead load of load receptor: Non uniform distribution of the load:  (NUD = 0 is accept	$p_{2}$ 0.5 $p_{2}$ 1 $p_{2}$ 1 $p_{2}$ 0.5 $p_{2}$ 1 $p_{2}$ 0.5 $p_{3}$ 1
LOAD CELL ANALOG (Module 3)	Type: TSSP-200KG
Accuracy class according to OIML R60:  Maximum number of load cell intervals: Fraction of mpe: Rated output (sensitivity): Input resistance of single load cell: Minimum load cell verification interval: (v <sub>min%</sub> = 100 / Y) Rated capacity:	
Minimum dead load, relative: Temperature range: Test report (TR) or Test Certificate (TC/OIML) as appropriate:	E <sub>max</sub> (kg) 230 (E <sub>min /</sub> E <sub>max</sub> ) * 100 (%) 0 T <sub>min</sub> / T <sub>max</sub> (°C) -10 / 40 R60/1991-NL-00.02 Rev. 1 pend
COMPLETE WEIGHING INSTRUMENT	Single-interval
Accuracy class according to EN 45501 and OIML R76: Fractions: $p_i = p_1^2 + p_2^2 + p_3^2$ : Maximum capacity: Number of verification scale intervals: Verification scale interval: Utilisation ratio of the load cell: $\alpha$	Type: 6880KGEU  Class <sub>WI</sub> (I, II, III or IIII)  p <sub>i</sub> 1.0  Max (kg) 200  n 2000  e (kg) 0.1  x = (Max / E <sub>max</sub> ) * (R / N) y = C * U <sub>exc</sub> * a * 1000 / n (µV/e)  A (mm²) 0.22 L (m) 81
Peripheral Equipment subject to legal control:	
Acceptance criteria for compatibility	Passed, provided no result below is < 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	$\Delta U - \Delta U_{min} = 3.15$ $(R_{LC} / N) - R_{Lmin} = 263$ $(L / A)_{max}^{WI} - (L / A) = 245$ $(T_{max} - T_{min}) - T_{range} = 20$
$Q * Max * R / N    <= E_{max}$ (R76: 4.12.1)	$E_{max} - (Q * Max * R / N) = 12.0$

Signature and date:

**PASSED** Conclusion . . . . . This is an authentic document made from the program: "Compatibility of NAWI-modules version 3.0".

### **ROLLING CHAIR SCALE**

Thank you for purchasing our Model 6880 (6880KGEU) Rolling Chair Scale. It has been manufactured with quality and reliability at our factory in Webb City, MO USA. Your scale has been tested before leaving our factory to insure accuracy and dependability for years to come.

This manual is provided to guide you through the operation of your scale. Please read it thoroughly before attempting to operate your scale and keep it handy for future reference.

### **FCC COMPLIANCE STATEMENT**

**WARNING!** This equipment generates, uses and can radiate radio frequency and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference in which case the user will be responsible to take whatever measures necessary to correct the interference.

You may find the booklet "How to Identify and Resolve Radio TV Interference Problems" prepared by the Federal Communications Commission helpful. It is available from the U.S. Government Printing Office, Washington, D.C. 20402, stock No. 001-000-00315-4.

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### **SPECIFICATIONS**

6880KGFU

6880

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Capacity	440 lb x .2 lb (200 kg x .1 kg)	200 kg x .1 kg	
Display	0.7" / 18 mm high-contrast 7-segment LCD with Body Mass Index		
Power	6 "C" size alkaline batteries or optional AC adapter		
Keys	On/Off, Zero, Units, Lock/Release, Net/Gross, Tare and ID/Height		
Display Functions	Auto power off, Lock/Release of display, Motion detection and Body Mass Index Calculator		

### **FEATURES**

- Fully electronic single load cell
- > Oversized 3" high wheels
- Zero turning radius ability
- Safety stops on rear wheels for parking in one place without rolling
- Contoured, sloping backrest allows the patient to assume a relaxed position
- Soft, padded lift-a-way armrest for ease in transferring patients to the scale and to accommodate patients with casts
- Fold up footrest to promote patient security when getting into or out of the scale.

### UNPACKING INSTRUCTIONS

Cut packing straps securing the shipping box.

Remove indicator (packed in separate box) from chair scale seat and set aside.

To remove scale from the box, lift up with equal force on the padded handles and at the lower frame. Set gently on floor. DO NOT lift scale by chair seat.

Remove all plastic wrapping, foam fillers and cardboard material from the scale.

Check for any damage incurred in shipping. If scale has been damaged, place a claim with the carrier. It is the responsibility of the purchaser to file all claims for any damages or loss incurred during transit. Use the original carton and shipping material to return the scale.

Remove and unpack the power supply and cord, if the scale was ordered with this option.

### **CARE and CLEANING of SCALE**

- DO NOT subject the platform to sudden shocks.
- DO NOT spray water directly on the display head.
- DO avoid areas where the scale might be exposed to moisture.
- DO NOT use abrasive cleaners on this instrument.
- DO NOT use acetone or other volatile solvents for cleaning.
- DO clean the scale using a damp soft cloth and mild detergent.

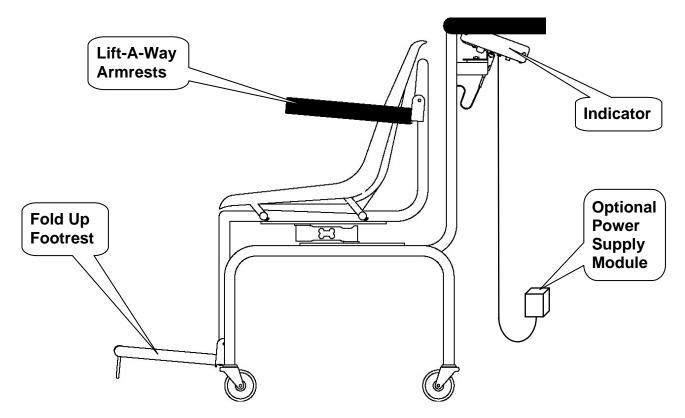
## **ERROR and STATUS DISPLAYS**

Display	Meaning
-Err-	General error, invalid keypad entry was attempted.
-DF-	Attempting to display a negative number greater than -9,999 or a positive number greater than 99,999
-ŁrL-	Indicates an attempt to zero a weight outside the scale zero range. (See Four Percent Zero Tracking Range Limit).
-Un5-	Motion is present when the indicator is attempting to perform one of the following operations: Power Up Zero or Zero Weight Display
AdErr	An analog to digital converter communication error has been detected. Consult the scale service representative.
<i>CALib</i>	Indicates improper stored calibration data, calibration is necessary.
ErrA	The analog to digital sample is invalid.
ErrAL	The load cell input is below the range of the indicator.
ErrAH	The load cell input is above the range of the indicator.
EE Err	NOVRAM failure. Consult the scale service representative.
OCAP	Scale weight exceeds scale capacity
OFF	Displayed to indicate the indicator is turning off.

### **OPERATING INSTRUCTIONS**



WARNING - This product is <u>not</u> intended for use in transporting patients! It is to be used ONLY for weighing a patient. Failure to observe this warning may result in serious injury to the patient and/or the scale operator.



- 1. Install six (6) "C" size batteries or if ordered with the scale, plug the power supply module into an appropriate power receptacle, then plug the small connector end of the power supply cord into the power jack located in the bottom right corner at the back of the indicator.
- 2. Install the indicator on the scale bracket (between the padded handles) and then connect the load cell cable.

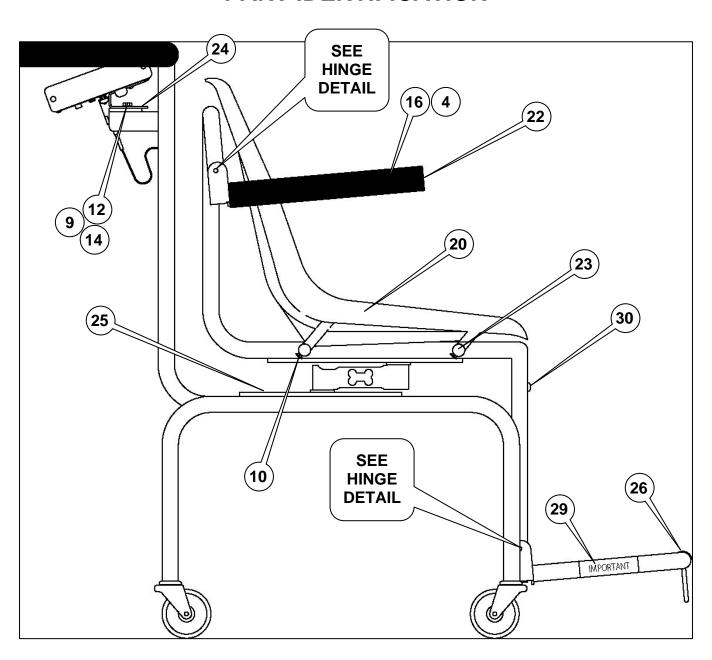
**NOTE!** For more information on installing the batteries (or the power supply module), mounting the indicator on the scale bracket and connecting the load cell cable, refer to the 758C Series Operation Manual, 8555-M210-O1.

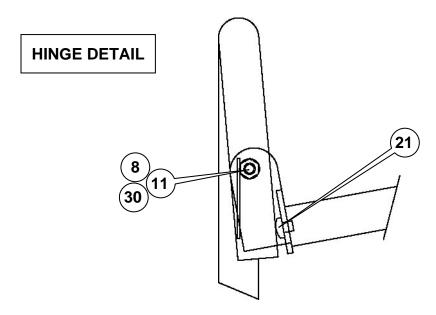
- 3. Place the chair scale on any hard, level, flat surface or low-cut carpet.
- **4.** With no weight on the scale, press the **[ ON/OFF ]** key. After a second or so the display should indicate a zero weight with the ZERO annunciator turned on. If the display does not indicate zero, press the **[ ZERO ]** key to zero the weight display.
- **5.** Set the patient on the scale and have them remain motionless for several seconds until the scale display shows their weight.

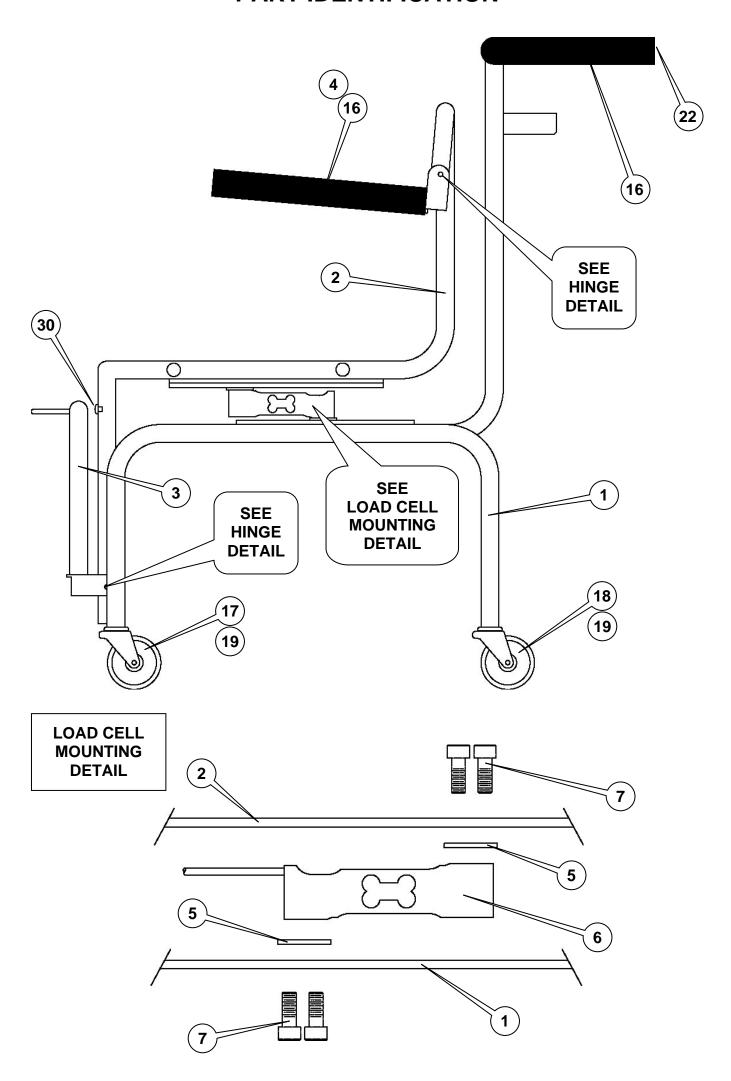
# **IMPORTANT!**

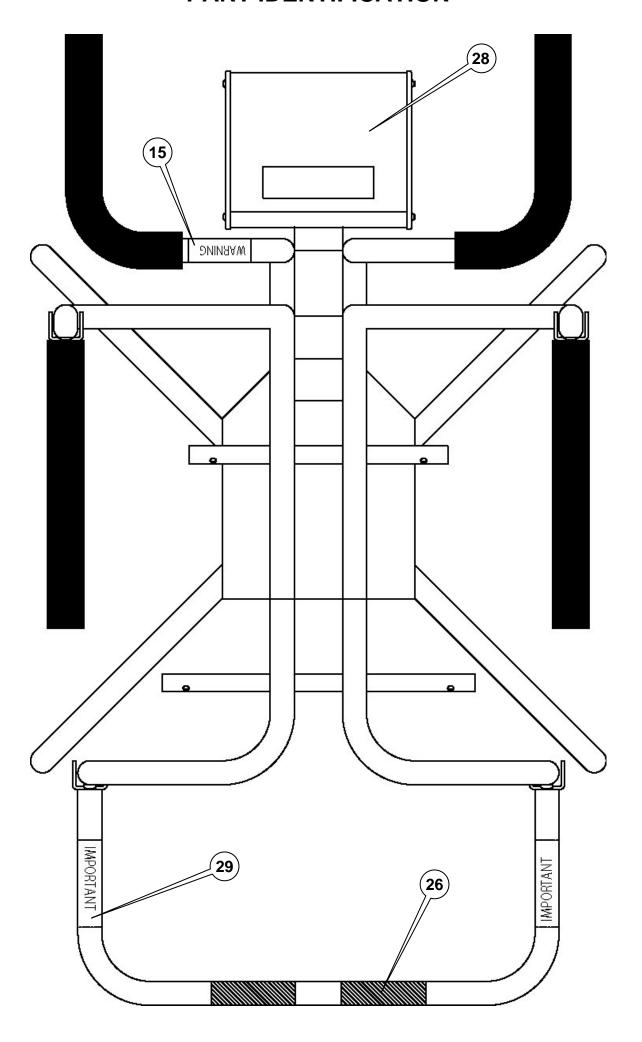
Lower footrest after patient is seated.
Raise footrest before patient stands up.
NEVER STAND UPRIGHT ON FOOTREST!

**6.** To re-zero the scale, remove the patient from the scale and press the **[ ZERO ]** key.









ITEM #	QTY	PART NUMBER	DESCRIPTION	
1	1	0064-D002-0A	LOWER FRAME WELDMENT	
2	1	0064-D003-0A	UPPER FRAME WELDMENT	
3	1	0064-C013-0A	FOOT REST WELDMENT	
4	2	0064-B011-0A	ARM REST WELDMENT	
5	2	0049-B028-08	SPACER	
6	1	2950-C138-1A	LOAD CELL	
7	4	6021-1313	SCW SOC HD CAP M10 X 1.5 X 22mm	
8	4	6021-1432	SCW PAN HEAD 1/4-20UNC-2A X 1 3/4" LG. PHIL.	
9	1	6021-1454	SCW HX HD 1/4-20UNC-2A X .75	
10	4	6021-1101	SCW OVAL HD #12 X 1.5	
11	16	6680-0030	WASHER FLAT 1/4" NYLON	
12	1	391RV204	NUT HEX ELASTIC 1/4-20UNC-2B	
14	1	6024-0004	WASHER FLAT 1/4	
15	1	0046-B268-08	WARNING LABEL	
16	4	6540-1070	GRIP FOAM	
17	2	6540-1043	CASTER SWIVEL	
18	2	6540-1044	CASTER SWIVEL W/BRAKE	
19	4	6540-1045	SOCKET FOR CASTERS	
20	1	6540-1103	CHAIR SHELL BLACK	
21	6	6540-1094	STEM BUMPER	
22	8	6450-1149	VINYL CAP 1" DIA	
23	4	6540-1148	VINYL CAP 3/4" DIA	
24	1	0033-B164-08	INDICATOR MOUNT	
25	1	593GR986	SERIAL TAG	
26	2	0064-B016-08	MAT FOOT REST	
27	5	6980-0014	CABLE TIE 6" WHITE	
28	REF	758C/758CSV	INDICATOR	
29	2	203R908	CAUTION LABEL	
30	4	6013-0420	NUT ACORN HEX 1/4-20UNC-2B	
		728R121	AC ADAPTER 115VAC to 12VDC @ 300 mA	
		728R901	AC ADAPTER 230VAC to 14VDC @ 300 mA	

