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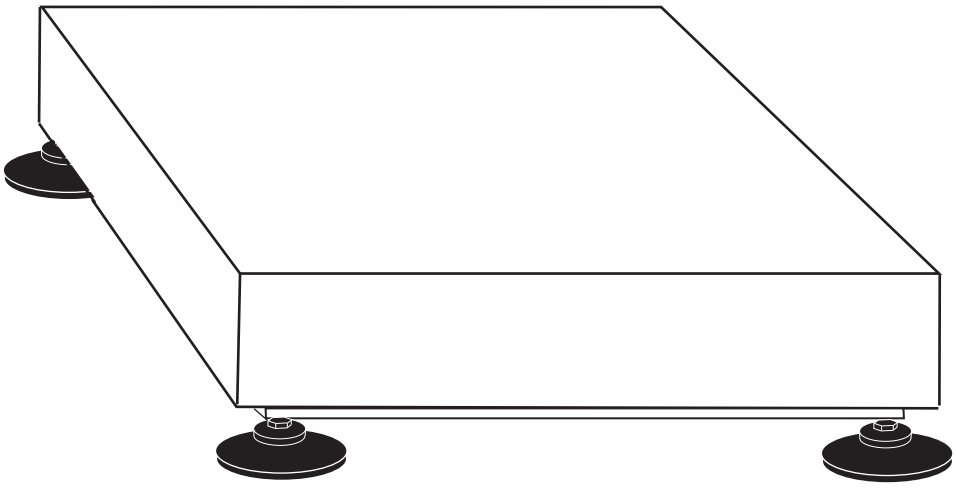
Champ SQ - Scale Base

INSTRUCTION MANUAL



Unauthorized changes or modifications to this equipment are not permitted. See manual for replacement parts.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules.
These limits are designed to provide reasonable protection against harmful interfer- ence when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This Class A, digital apparatus meets all requirements of the Canadian Interference. Causing Equipment Regulations.

Cet appareil numerique de la classe A respecte toutes les exigences du Reglement sur le material broilleur du Canada.

CE This device corresponds to requirements stipulated in 73/23/EEC and features radio interference suppression in compliance with valid EC Regulation 89/336/EEC. Note: The displayed value may be adversely affected under extreme electromagnetic influences, eg. when using a radio unit in the immediate vicinity of the device. Once the interference has been rectified, the product can once again be used for its intended purpose. The device may have to be switched on again.

Cet appareil correspond aux exigences selon la norme 73/23/CEE et est déparasité conformément à la directive de la CE 89/336/CEE en vigueur. Remarque: Dans des conditions d'influences électromagnétiques extrêmes, par exemple en cas d'exploitation d'un appareil radio à proximité immédiate de l'appareil la valeur d'affichage risque d'être influencée. Une fois que l'influence parasite est terminée, le produit peut être de nouveau utilisé de manière conforme aux prescriptions; le cas échéant, il est nécessaire de le remettre en marche.

Dieses Gerät entspricht den Anforderungen nach 73/23/EWG und ist funkentstört entsprechend der geltenden EG-Richtlinie 89/336/EWG. Hinweis: Unter extremen elektromagnetischen Einflüssen z.B. bei Betreiben eines Funkgerätes in unmittelbarer Nähe des Gerätes kann eine Beeinflussung des Anzeigewertes verursacht werden. Nach Ende des Störeinflusses ist das Produkt wieder bestimmungsgemäss benutzbar, ggfs. ist ein Wiedereinschalten erforderlich.

1. OVERVIEW

Champ SQ is a single load cell base. The Champ SQ scale base can be connected to a CD-11, CD-31, CD-33 or Ohaus Industrial Indicator (or other types). The Champ SQ Washdown scale base (all stainless construction) is used with the Ohaus CW-11 Washdown Indicator.

2. PHYSICAL DESCRIPTION

Construction

Platform - Fabricated of stainless-steel
Scale Base - Formed and welded mild steel, painted black. The Champ washdown scale base is an all stainless-steel design with a stainless-steel Load cell.

Overloading

Corner Loading - 100% of full capacity.
Safe Overload - 150% of full capacity.
Ultimate Overload - 300% of full capacity.

Operation Environment

Champ SQ is designed to meet NTEP 5000d and OMIL 3000e requirements to operate in a temperature range from -10°C to 40°C, 0 to 95% relative humidity.

3. INSTALLATION PROCEDURES

Assembly and Installation

Examine the shipping box for any signs of damage. If DAMAGE is found, make a claim with the carrier immediately.

Open the box and remove the scale assembly. Place the scale assembly on a stable flat surface.

Connect to Ohaus industrial indicator.

Level the scale, apply power and weigh.

Level Indicator

BEFORE CALIBRATION OR USE, REMOVE THE RED PLASTIC SHIPPING TABS IN THE CORNERS OF THE SCALE BASE.

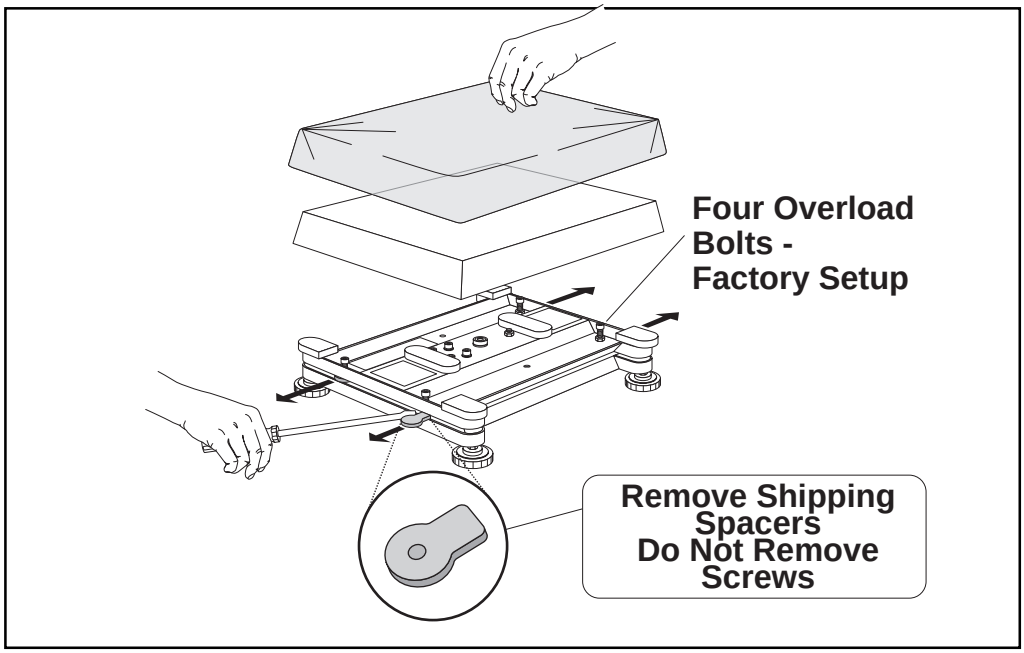


Figure 1. Unpacking and Overload Protection.(Actual design may vary)

Troubleshooting

If operational difficulties are encountered, first obtain as much information as possible regarding the problem. Failures and malfunctions often may be traced to simple causes such as loose connections to the indicator, low battery power, improper setup, etc.

Load Cell Replacement

Remove the scale platform and disconnect the indicator battery and AC power source.

IMPORTANT NOTE
Wait 30 seconds after removing power to the indicator before unplugging the load cell cable.

Remove the top load cell mounting bolts that secure the top frame to the load cell. Set the top frame and load cell spacer aside. Remove the bottom load cell mounting bolts. The load cell assembly can be removed from the lower base.

When reinstalling a load cell, reverse the preceding steps. Lubricate the threads and under the head of the hex bolts before reinstalling. Using a torque wrench, tighten the hex bolts to the following torque specifications:

Load Cell Replacement (Cont.)

MODEL	TORQUE	OVERLOAD STOP (Corner)	OVERLOAD STOP (Center)
CQ10R	10N.m	1mm	0.5mm
CQ25R	10N.m	2mm	0.5mm
CQ50L	10N.m	3mm	0.75mm
CQ100L	15N.m	3mm	0.75mm
CQ250XL	80N.m	6mm	1.2mm
CQ10RW	10N.m	1mm	0.5mm
CQ25RW	10N.m	2mm	0.5mm
CQ50LW	10N.m	3mm	0.75mm
CQ100L	15N.m	3mm	0.75mm
CQ250XLW	80N.m	6mm	1.2mm

Overload Stop Adjustments

The overload stop gaps must be checked and reset if the top or bottom frame, or load cell is replaced. To set the gaps, remove the platform, loosen the jam nuts (refer to Figure 2), then use the proper size feeder gauge in the gap, turn the set screws until a slight drag on the feeder is felt. Tighten the jam nut and recheck the gap. Re-adjust if necessary, cover the platform and check for full capacity. Refer to Figure 3 for the location of the overload stops and Table above for the gap settings per Order Number.

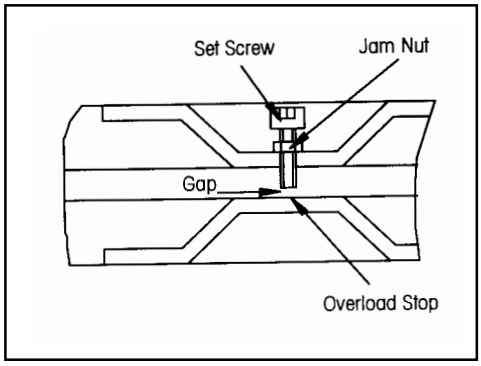


Figure 2.

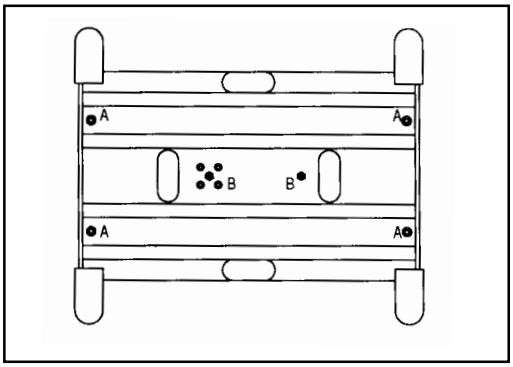


Figure 3.

Shift Test

A shift test verifies that all sections of the scale platform weigh within tolerance. If the scale does not pass the shift test, verify the overload stop gaps before replacing the load cell. No adjustment for the shift is possible. If the shift test cannot be passed, the load cell must be replaced.

Place test weights equal to one third scale capacity sequentially at each of the positions A, B, C, D, as shown in Figure 4. Note the indicator reading at each position.

Positions A, B, C, and D are centered at the each quarter of the scale platform. The following table shows the tolerance in "d" (division) for the shift test.

Scale Capacity	Test Weight	Acceptable Tolerance (New Scale)	Maintenance Tolerance (In Service)
5,000d	1,000d	±1.0d	±2.0d

Table No. 2 Tolerance Table for Shift Test

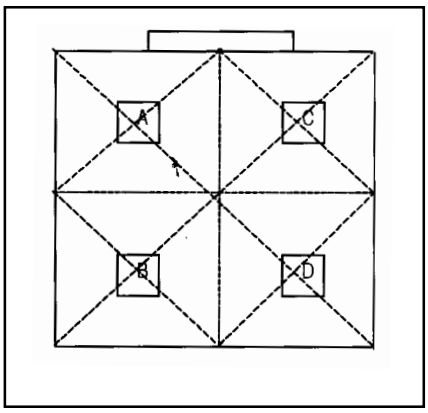


Figure 4. Shift Test.

Factory Setup (Bench Scales)

When Champ SQ bases are connected to indicators in the factory, a full span calibration is conducted during the configuration. Because of transportation, local environment and variation in the earth's gravitation field, the original factory settings must be verified and checked in the field before use.

WARRANTY

Ohaus products are warranted against defects in materials and workmanship from the date of delivery through the duration of the warranty period. During the warranty period Ohaus will repair, or, at its option, replace any component(s) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to Ohaus.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, has foreign material penetrating to the inside of the product, or as a result of service or modification by other than Ohaus. In lieu of a properly returned warranty registration card, the warranty period shall begin on the date of shipment to the authorized dealer. No other express or implied warranty is given by Ohaus Corporation. Ohaus Corporation shall not be liable for any consequential damages.

As warranty legislation differs from state to state and country to country, please contact Ohaus or your local Ohaus dealer for further details.

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