



**Waist-High
Stand-On Scale
Models 6855, 6855KGEU
6856 & 6856KGEU
Operating Instructions**



1930-M458-O1 Rev C
04/09

CARDINAL SCALE MFG. CO.
PO BOX 151 • WEBB CITY, MO 64870
PH (417) 673-4631 • FAX (417) 673-5001
Web Site - <http://www.detectoscale.com>

Printed in USA

Technical Support: Ph: 866-254-8261 • techsupport@cardet.com

WAIST-HIGH STAND-ON SCALE

Thank you for purchasing our model 6855 (6855KGEU) or 6856 (6856KGEU) Waist-High Stand-On 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.

All rights reserved. Reproduction or use, without expressed written permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. While every precaution has been taken in the preparation of this manual, the Seller assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from use of the information contained herein. All instructions and diagrams have been checked for accuracy and ease of application; however, success and safety in working with tools depend to a great extent upon the individual accuracy, skill and caution. For this reason the Seller is not able to guarantee the result of any procedure contained herein. Nor can they assume responsibility for any damage to property or injury to persons occasioned from the procedures. Persons engaging the procedures do so entirely at their own risk.

SPECIFICATIONS

	6855	6855KGEU	6856	6856KGEU
Capacity	600 lb x .2 lb or 270 kg x .1 kg (selectable)	270 kg x .1 kg	800 lb x .2 lb or 360 kg x .1 kg (selectable)	360 kg x .1 kg
Platform Size	18" x 14" / 46 cm x 36 cm		24" x 24" / 61 cm x 61 cm	
Shipping Weight	70 lb / 32 kg		85 lb / 39 kg	
Scale Height	41.69" / 106 cm			
Display	0.7" / 17.8 mm high-contrast LCD			
Power	6 "AA" size Alkaline, Ni-Cad or NiMH batteries (<i>not included</i>) OR an optional 100 to 240 VAC 50/60Hz 12 VDC 1A wall plug-in UL/CSA listed AC power supply (Cardinal part number 6800-1045).			
Keys	On/Off, Zero, Units, Lock/Release, BMI/Enter and 4 directional arrows			
Features	Body Mass Index Calculator			

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UNPACKING INSTRUCTIONS

- Remove staples or cut along bottom of carton. Lift carton off pallet.
- 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.
- Cut packing straps securing scale to pallet.
- To remove scale from pallet, at the back of the scale lift up with equal force from the column and at the platform base near the wheels on the scale. Set gently on floor.
- Remove all plastic wrapping, foam fillers and cardboard material from 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** submerge indicator in water, pour or spray water directly on indicator.
- **DO NOT** use acetone, thinner or other volatile solvents for cleaning.
- **DO NOT** expose scale to temperature extremes.
- **DO NOT** place scale in front of heating/cooling vents.
- **DO NOT** place scale in an area where it might be exposed to moisture.
- **DO** clean the indicator with a damp soft cloth and mild non-abrasive detergent.
- **DO** remove power before cleaning with a damp cloth.
- **DO** provide clean AC power and adequate protection against lightning damage.
- **DO** keep the surroundings clear to provide clean and adequate air circulation.

ERROR AND STATUS DISPLAYS

Display	Meaning
-Err-	General error, invalid keypad entry was attempted.
-QF-	Attempting to display a negative number greater than -9,999 or a positive number greater than 99,999
-tRL-	Indicates an attempt to zero a weight outside scale zero range. (See Four Percent Zero Tracking Range Limit).
-UnS-	Motion is present when indicator is attempting to perform one of the following operations: Power Up Zero or Zero Weight Display
CALib	Indicates calibration is necessary.
RdErr	} Consult your scale service representative.
ErrAL	
ErrRH	
QCAP	Scale weight exceeds scale capacity
OFF	Displayed to indicate indicator is turning off.

INDICATOR INSTALLATION

To install the indicator on the scale column bracket, place the screw heads on the back of the indicator into the large end of the slotted holes in the bracket. Pull down to secure the indicator. The spring plunger will lock the indicator to the bracket. See Figures No. 1, 2 and 3.

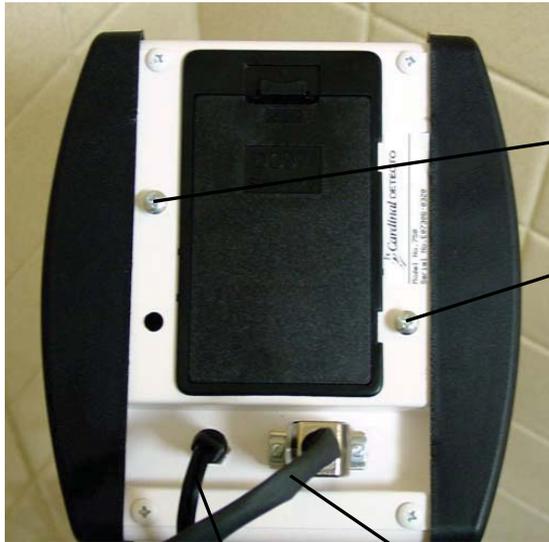


Figure No. 1

Power
Supply

Scale
Cable

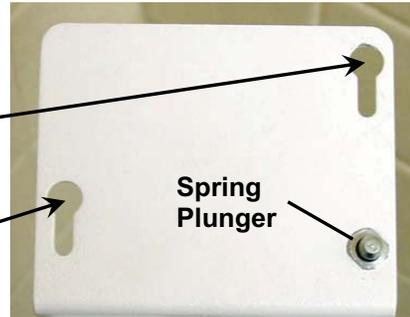


Figure No. 2



Figure No. 3

Spring
Plunger
Release

Batteries

The scale can be operated from 6 "AA" size Alkaline, Ni-Cad or NiMH batteries (not included). You must first obtain and install batteries before operations can begin. Batteries are contained in a battery holder inside the scale indicator. Access is via a removable panel on the back of the indicator. When using batteries, all 6 batteries must be of the same type. They must be all Alkaline, Ni-Cad or all NiMH. In addition, **DO NOT** mix Ni-Cad or NiMH batteries.



CAUTION! The scale indicator has internal circuitry that when used in conjunction with the external power supply, recharges the Ni-Cad or NiMH batteries. Because the indicator has this charging capability, **DO NOT** connect a power supply to the indicator if using Alkaline batteries.

Optional AC Power Supply

To power the scale without batteries, connect the 12 VDC, 1 Amp power supply's (Cardinal part number 6800-1045) connector into the power jack on lower back of indicator and then plug the power supply into the proper electrical outlet. See Figure 1. On models requiring 220 VAC, it is the customer's responsibility to obtain the correct power adapter plug. The scale is now ready for operation.

INDICATOR INSTALLATION, CONT.

Battery Installation/Replacement

To install or remove the batteries, the following steps should be followed:

1. Remove indicator from scale or desk stand/wall mount bracket if used.
2. Turn the indicator so that the display is facing away from you.
3. Locate the rectangular panel on back of indicator.
4. To install or replace the batteries, first remove the battery holder cover by pushing in on the tab and lifting it up. Refer to Figure No. 4.
5. If installing new batteries, proceed to step 6. If replacing the batteries, remove all 6 batteries from the battery holder and then proceed to step 6.
6. Install the 6 new "AA" size batteries in the battery holder, noting the polarity markings located in the battery holder. Refer to Figure No. 5.
7. After placing all 6 batteries in the holder, replace the battery cover.
8. Make sure power supply is unplugged, and then turn indicator over (display facing up) and press **ON / OFF** key.
9. If display turns on, batteries have been installed correctly. If not, remove panel and check for one or more improperly positioned batteries.
10. Return the indicator to desk stand/wall mount bracket if used.
11. The scale is now ready for operation.

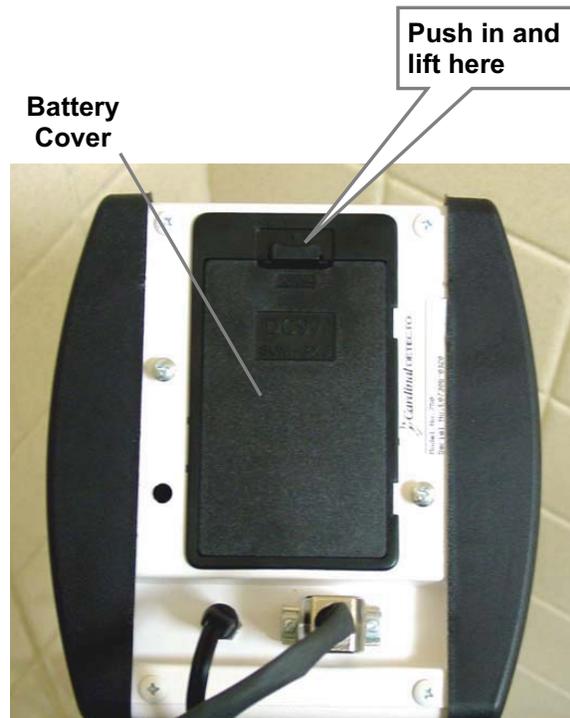


Figure No. 4



Figure No. 5

For more information on setup and operation of the indicator, see the 750 Owner's Manual (8555-M260-O1).

OPERATION



DO NOT operate the keypad with pointed objects (pencils, pens, etc).
Damage to keypad resulting from this practice is **NOT** covered under warranty.

To Weigh

1. Set scale on any hard, level, flat surface or low-cut carpet.
2. Press **ON / OFF** key to turn on indicator.
3. Press **ZERO** key to zero weight display. The ZERO and lb or kg annunciator will turn on to show that scale is ready for use.
4. Place patient on scale and read weight display.
5. Remove patient from scale.

Zero Weight Display

1. If the indicator is not showing zero weight on the display, press **ZERO** key.
2. Weight display will return to zero. ZERO, STABLE \blacktriangleleft \blacktriangleright and lb or kg annunciators will turn on to show a stable, center-of-zero weight condition.

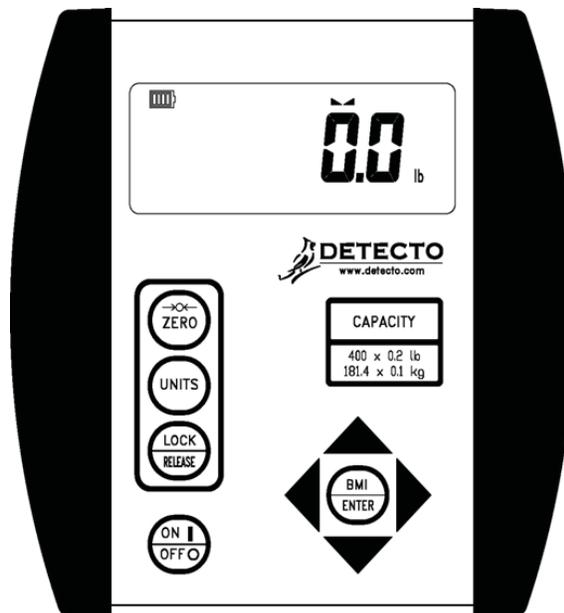


Figure No. 6

Metric Conversion

Press **UNITS** key to toggle between pounds and kilograms. Note that lb or kg annunciator will turn on to show which weighing unit is active.

To Weigh and Calculate BMI

1. Press **ON / OFF** key to turn on indicator.
2. Press **ZERO** key to zero weight display. The ZERO and lb or kg annunciator will turn on to show that scale is ready for use.
3. Place patient on scale and read weight display.
4. Press **BMI / ENTER** key.
5. If pounds is the active weighing unit, display will change to show 5 FEET, 6 INCHES with the 6 blinking. (*The blinking character is the position to be changed*).
 - a. Press \blacktriangleup or \blacktriangledown keys until desired height in inches is displayed and then press \blacktriangleleft or \blacktriangleright key to move the blinking character to FEET.
 - b. Press \blacktriangleup or \blacktriangledown keys until desired height in feet is displayed.
 - c. Proceed to Step 7.
6. If kilograms is the active weighing unit, display will change to show 170 cm with the 0 of 170 blinking. (*The blinking character is the position to be changed*)...
 - a. Press \blacktriangleup or \blacktriangledown keys until the desired number is displayed.
 - b. Press \blacktriangleleft or \blacktriangleright key to move to next character to change.
 - c. Repeat steps A and B until the desired height in centimeters is displayed.
 - d. Proceed to Step 7.
7. Press **BMI / ENTER** key.
8. Read BMI on display.
9. Remove patient from scale.
10. Press **BMI / ENTER** key to return to weighing operation.

HEIGHT ROD INSTRUCTIONS

Height Rod Hole Location

- Please check Height Rod hole locations before installing Height Rod.
- **Some models may require holes to be drilled.**
- Please follow the measurements for drilling holes if necessary.
- After holes have been drilled, please follow installation instructions.
- Install the two (2) #10 x ½" hex head screws from the hardware pack into the column.

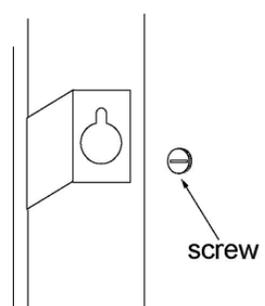
IMPORTANT!
Measure from top of scale base.



Height Rod Installation Instructions

1. Remove Height Rod from shipping container. Inspect the unit for signs of damage. Contact our Customer Service Department if necessary.
2. Loosen screws located on front of scale column. Place height rod brackets over screws and pull down; securing brackets. Tighten screws as needed.

NOTE! The Indicator must be facing away from the scale platform to install the height rod.

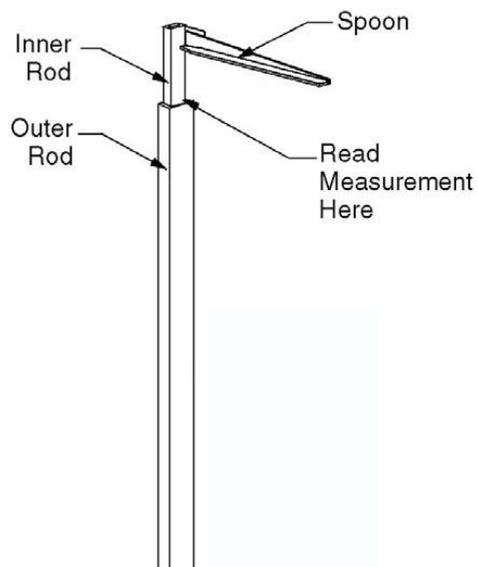


Height Rod Operation

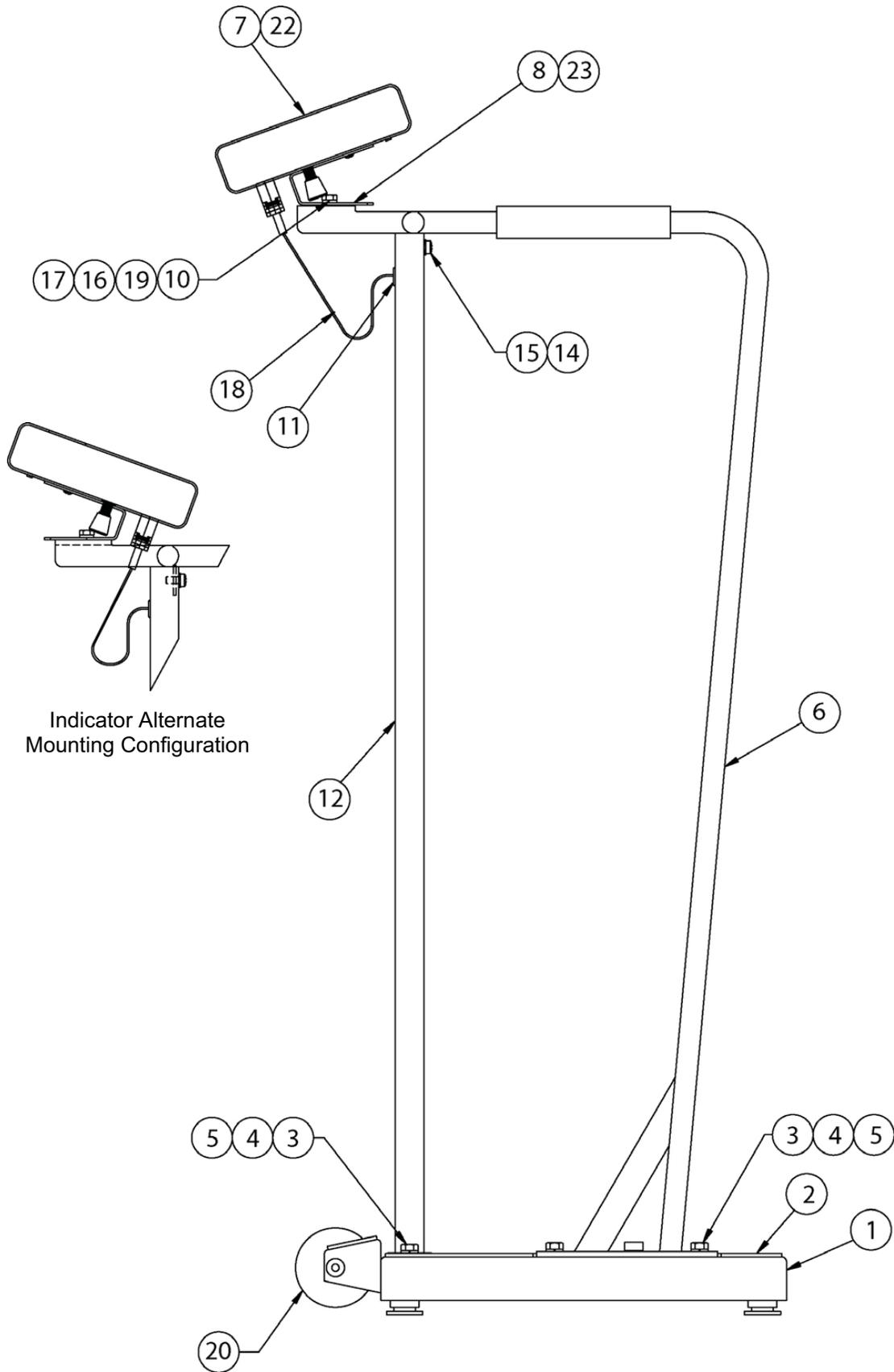
1. Raise the inner rod of the telescoping column.
2. Lift up the spoon and lower the inner rod until the spoon rests on the patient's head.

CAUTION! Do not raise or lower Height Rod by spoon tip!

3. Read the correct height measurement on the inner rod at the top of the outer rod.

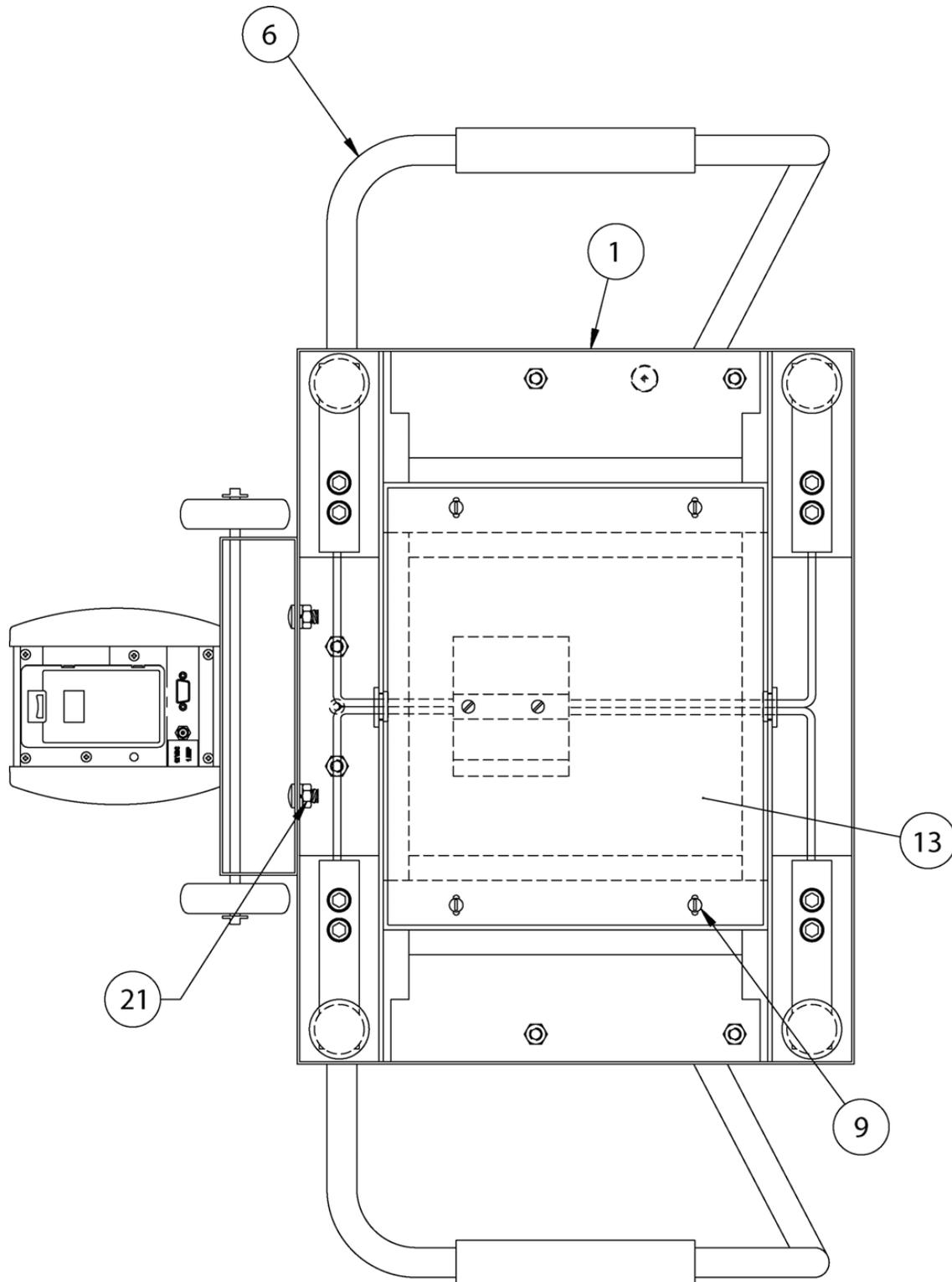


PART IDENTIFICATION

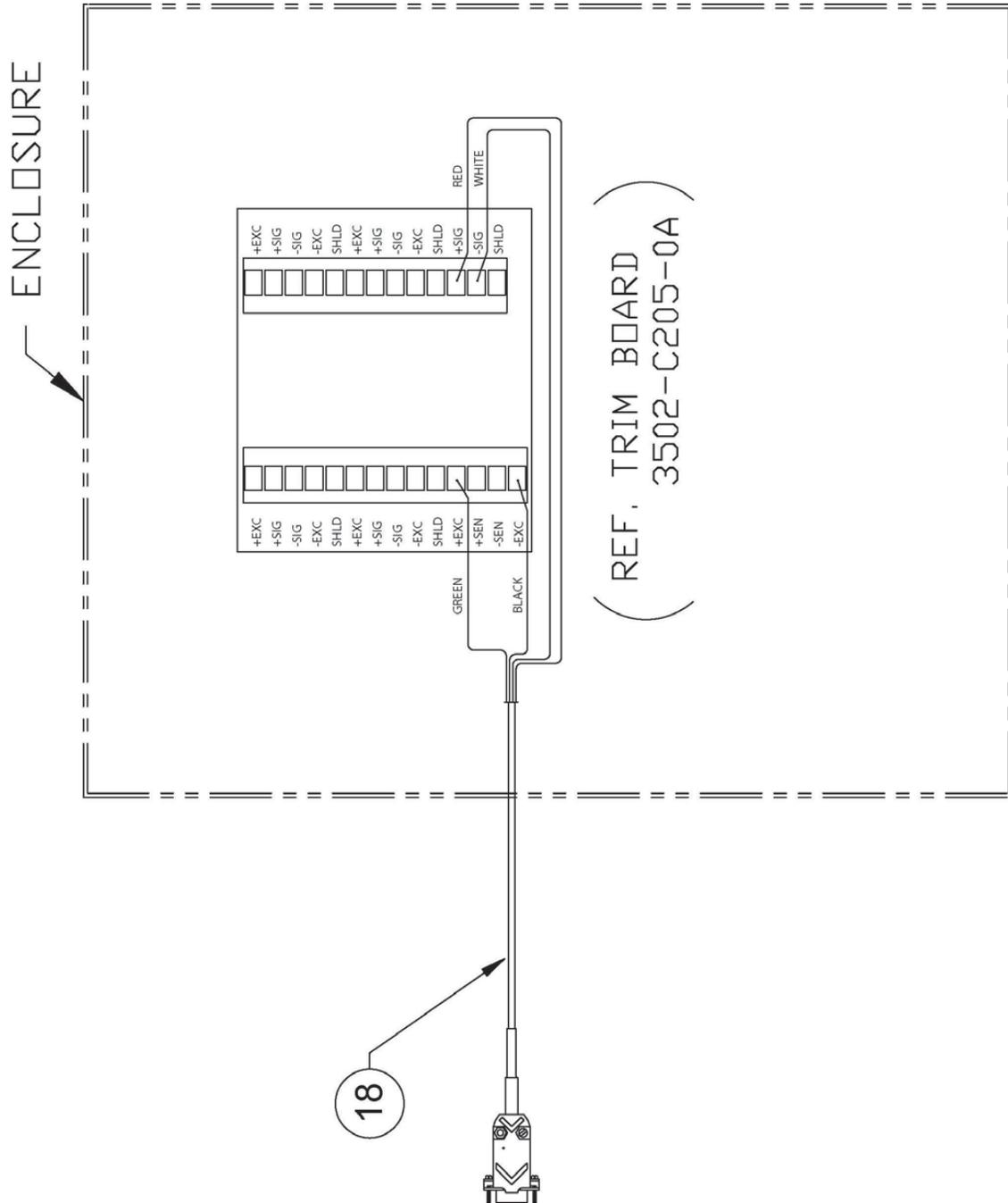


Indicator Alternate Mounting Configuration

PART IDENTIFICATION, CONT.



PART IDENTIFICATION, CONT.



PART IDENTIFICATION, CONT.

ITEM NO.	QTY 6855	QTY 6856	PART NUMBER	DESCRIPTION
1	1	-	1930-D330-0A	WEIGHBRIDGE ASSY
	-	1	1930-D445-0A	WEIGHBRIDGE ASSY (6856)
2	1	-	1930-C338-08	MAT W/ADHESIVE
	-	1	1930-C452-08	MAT W/ADHESIVE (6856)
3	6	6	6007-0034	HEX HEAD SCREW 5/16-18 UNC-2A X 3/4"
4	6	6	6024-0050	LOCK WASHER 5/16"
5	6	6	6013-0275	HEX NUT 5/16-18 UNC-2B
6	1	-	1930-C143-0A	HANDRAIL ASSEMBLY
	-	1	1930-C450-0A	HANDRAIL ASSEMBLY (6856)
7	1	1	750	DIGITAL INDICATOR
8	1	1	0033-B438-0A	MTG BRKT ASSY - 750
9	4	4	6021-0665	MACHINE SCREW #6-32 X .375 PAN HD PHILLIP DR
10	1	1	391RV204	ELASTIC STOP NUT
11	1	1	6680-1043	GROMMET
12	1	1	1930-B336-1A	COLUMN ASSEMBLY
13	1	-	1930-C337-08	COVER
	-	1	1930-C451-08	COVER (6856)
14	1	1	6024-0047	EXT STAR WASHER 1/4"
15	1	1	6021-1423	TRUSS HEAD SCREW 1/4-20 UNC-2A X 1/2"
16	1	1	0033-B110-08	UHMW DISK
17	1	1	6024-0004	FLAT WASHER 1/4" DIA SS
18	1	1	1930-B428-0A	CABLE
19	1	1	6021-1454	HEX HEAD BOLT 1/4-20 UNC-2A X 3/4"
20	1	1	0033-C090-0A	WHEEL ASSY.
21	2	2	6013-0045	HEX NUT 1/4-20 UNC
22	-	-	758CSV	DIGITAL INDICATOR (KGEU Model Only)
23	-	-	0033-B164-08	MOUNTING BRACKET (KGEU Model Only)
	1	1	3502-C205-0A	TRIM BOARD

STATEMENT OF LIMITED WARRANTY

Detecto Scale warrants its equipment to be free from defects in material and workmanship as follows: Detecto warrants to the original purchaser only that it will repair or replace any part of equipment which is defective in material or workmanship for a period of one **(1) year** from date of shipment. Detecto shall be the sole judge of what constitutes a defect.

During the **first ninety (90) days** Detecto may choose to supply all necessary replacement parts and service during normal weekday working hours at no charge to the buyer.

After the first ninety (90) days Detecto will supply parts and service at the job site provided the owner agrees to pay the Dealer for all travel time, including mileage and test equipment, as well as any expenses incurred over the direct labor of the technician at the job site. This limited warranty honors only labor performed by Detecto authorized dealers.

This warranty does not apply to peripheral equipment not manufactured by Detecto; this equipment will be covered by certain manufacturer's warranty only.

This warranty does not include replacement of expendable or consumable parts. This does not apply to any item which has deteriorated or damaged due to wear, accident, misuse, abuse, improper line voltage, overloading, theft, lightning, fire, water or acts of God, or due to extended storage or exposure while in purchaser's possession. This warranty does not apply to maintenance service. Purchased parts will have a ninety (90) day repair or replacement warranty only.

Detecto may require components be returned to the factory; they must be properly packed and shipping charges prepaid. A return authorization number must be obtained for all returns and marked on the outside of all returned packages. Detecto accepts no responsibility for loss or damage in transit.

STATEMENT OF LIMITED WARRANTY

Conditions Which Void Limited Warranty

This warranty shall not apply to equipment which:

- A.) Has been tampered with, defaced, mishandled or have had repairs and modifications not authorized by Detecto.
- B.) Has had serial number altered, defaced, or removed.
- C.) Has not been grounded according to Detecto's recommended procedure.

Freight Carrier Damage

Claims for equipment damaged in transit must be referred to the freight carrier in accordance with freight carrier regulations.

This warranty sets forth the extent of our liability for breach of any warranty or deficiency in connection with the sale or use of the product. Detecto will not be liable for consequential damages of any nature, including but not limited to, loss of profit, delays or expenses, whether based on tort or contract. Detecto reserves the right to incorporate improvements in material and design without notice and is not obligated to incorporate improvements in equipment previously manufactured.

The foregoing is in lieu of all other warranties, express or implied including any warranty that extends beyond the description of the product including any warranty of merchantability or fitness for a particular purpose. This warranty covers only those Detecto products installed in the forty-eight (48) contiguous continental United States.



Ph. (800) 641-2008
E-mail: detecto@cardet.com
203 E. Daugherty
Webb City, MO 64870

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