DETECTO®

VET550
DIGITAL VETERINARY SCALE
Owner's Manual

PROPER DISPOSAL

When this device reaches the end of its useful life, it must be properly disposed of. It must not be disposed of as unsorted municipal waste. Within the European Union, this device should be returned to the distributor from where it was purchased for proper disposal. This is in accordance with EU Directive 2002/96/EC. Within North America, the device should be disposed of in accordance with the local laws regarding the disposal of waste electrical and electronic equipment.

It is everyone's responsibility to help maintain the environment and to reduce the effects of hazardous substances contained in electrical and electronic equipment on human health. Please do your part by making certain that the device is properly disposed of. The symbol shown to the right indicates that this device must not be disposed of in unsorted municipal waste programs.

FCC COMPLIANCE STATEMENT

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 designed within the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules 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 for taking 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. Request stock No. 001-000-00315-4.

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DISCLAIMER

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Serial Number _____ **Date of Purchase** _____ **Purchased Form** _____ _____ _____ RETAIN THIS INFORMATION FOR FUTURE USE	**PRECAUTIONS** Before using this instrument, read this manual and pay special attention to all "WARNING" symbols: ⚠ IMPORTANT ⚡ ELECTRICAL WARNING

INTRODUCTION

Thank you for purchasing our Detecto Model VET550 Digital Veterinary Scale. This manual will guide you through the setup and operation of your scale. Please read it thoroughly before attempting to operate this scale and make it available for future reference.

SPECIFICATIONS

Capacity:	550 lb x 0.2 lb (250 kg x 0.1 kg)
Platform Size:	36 in L x 22 in W x 2 in H (90 cm L x 56 cm W x 51 cm H)
Display Size:	6.8 in L x 1.6 in D x 3.2 in H (17 cm x 4 cm x 8 cm)
Weight Display:	Five Digit with decimal, seven-segment, 1.0-inch (25 mm) LCD
Power Requirements:	100 to 240V AC 15V DC 300 mA wall plug-in UL/CUL listed AC power adapter or 4 AA alkaline batteries (not included)
Construction:	Stainless steel
Tare:	100% of scale capacity
Keys:	HOLD, UNIT, ON/OFF, TARE
Operating Environment:	Temperature Range: 41 to 95 °F (+5 to +35 °C)
Humidity:	35% ~ 90% RH
Net Weight:	40 lb (18 kg)
Shipping Weight:	50 lb (23 kg)

FEATURES

- Stainless steel enclosure for durability and easy wipe-down cleaning.

- Built-in wheels and integral carrying handle for easy transportation of scale to a new location.

- The 7.0 ft (2.1 m) cable from the scale base to the display allows for the placement of the weight display wherever it is easiest to operate the keypad and read the weight.

- Included wall mount display bracket and mounting hardware.

- Minimal assembly required (install non-skid feet and mount bracket for weight display).

- Scale can be powered by included AC power adapter or 4 AA batteries (not included).

- Selectable Auto Shut-Off feature (up to 5 minutes) turns the scale off when not used.

- Zero is established on a power-up routine and maintained by auto-zero circuitry.

- The HOLD key allows the animal's weight to be retained after leaving the platform.

- USB Port for transmission of weight data to an EMR (electronic medical record) software program.

SETUP AND INSTALLATION

Unpacking

Before beginning the installation of your scale, make certain the instrument has been received in good condition. When removing the scale from its packing, inspect it for signs of damage, such as exterior dents and scratches. Keep the carton and packing material for return shipment if it should become necessary. It is the responsibility of the purchaser to file all claims for any damages or loss incurred during transit. Remove all plastic wrapping, foam fillers, and cardboard material from the scale platform, display, and other components. You should have the following components:

- (1) Scale Base (with attached Display Cable)
- (1) Stainless Steel Platform Cover
- (1) Weight Display Wall Mounting Bracket
- (1) 15V DC 300 mA AC power adapter
- (1) Hardware Pack, containing:
    - (2) Screws and Plastic Wall Anchors
    - (4) Non-skid Scale Feet

Install the Scale Feet

⚠ **IMPORTANT!** THE LEVELING FEET MUST BE INSTALLED TO OPERATE THE SCALE.

1. Remove the four leveling feet from the shipping pack and install one in each corner of the bottom of the scale base assembly.

2. For best results, place the scale on a flat level surface and adjust the leveling feet to ensure the scale is sitting level and does not teeter.

3. The scale is now ready for operation.

Leveling Feet

Leveling Feet
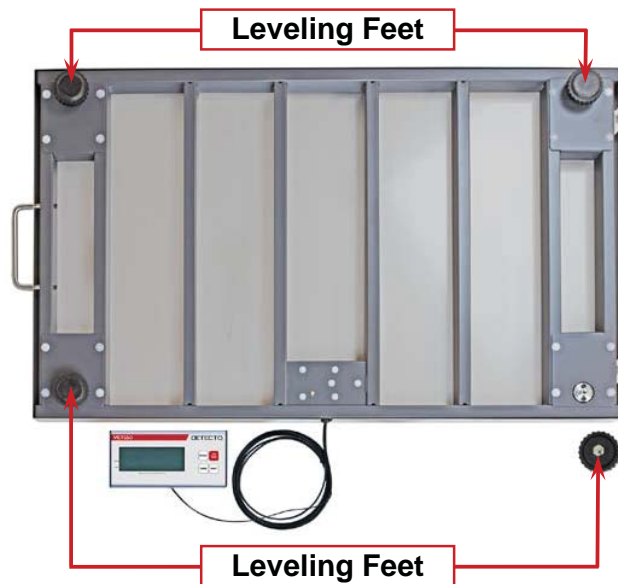
SETUP AND INSTALLATION, CONT.

Transporting the Scale

The VET550 has built-in wheels and an integral carrying handle for easy transportation of the scale to a new location. Follow the instructions below to safely lower and raise the scale to and from the floor when relocating the scale.

⚠ **DO NOT DROP THE SCALE!** This scale weighs approximately 40 pounds. Damage to the load cells can occur if the scale is dropped or allowed to fall from the transport position. If damage to the scale is determined to have been caused by falling or dropping the scale, the warranty will be voided!

Lowering Scale from Transport Position to Floor

1. From the transport position, stand close to the scale with your feet 8 to 12 inches apart.

2. Firmly grasp the handle on the scale.

3. While stepping back, lower the scale to the floor, keeping your back straight and bending your knees until you are in a squatting position.

Never bend at the waist with your legs straight!

Lifting Scale from Floor to Transport Position

1. Stand close to the scale with your feet 8 to 12 inches apart.

2. Keeping your back straight, bend your knees until you are in a squatting position.

Never bend at the waist with your legs straight!

3. Firmly grasp the handle on the scale and lift it straight up. Do not twist to either side. Keep the scale close to you, not at arm's length.

Scale Transport Position

4. Use your leg muscles as you lift, keeping your back upright and in its natural posture. Always lift steadily and smoothly without jerking.

Storing the Scale

For storage, lay the scale flat for maximum protection against damage.

Placing the Scale

The scale should be placed on a flat, level floor or low-cut carpet away from any rapidly moving air source (heating and cooling vents). Check to make certain the scale is level and does not teeter. If it is not, adjust all four (4) feet as required to attain a level scale.

⚠ **NOTE:** Any time the scale is moved or re-located, be sure to check if the scale is level before using it.
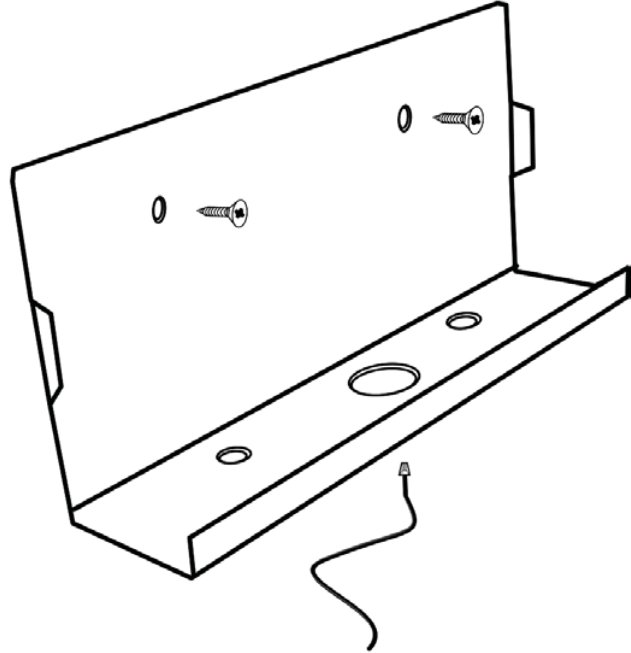
SETUP AND INSTALLATION, CONT.

Placing the Weight Display

The VET550 display has a 7.0 ft (2.1 m) cable to allow it to be placed at a convenient position away from the scale base. The included bracket can be used to mount the weight display on a wall for easy viewing and operation.

Wall Mounting the Weight Display

1. Choose the location to mount the display on the wall where it can be easily viewed, not subject to direct sunlight, and where the keypad is within easy reach of the operator.

2. Using the bracket for a template, place the bracket against the wall and mark the holes to drill.

3. Remove the bracket and drill two holes in the wall for the mounting wall anchors.

4. Insert the two wall anchors into the drilled holes and push them in until they are flush with the wall.

5. Place the weight display bracket against the wall aligning the holes in the bracket with the two wall anchors and insert the two (2) wall anchor screws through the bracket and into the wall anchors.

Use the weight display mounting bracket as a template to mark the holes to drill.

6. Tighten the screws to secure the bracket to the wall.

7. Plug the display cable into the bottom of the weight display and then set the weight display on the bracket.

Interconnections

Power and output connections to the VET550 Digital Veterinary Scale are made on the right side (as viewed facing the display) of the weight display. Connections for the scale input are made using a snap-in modular connector on the bottom of the weight display. The USB port is a device (or upstream) port using an industry-standard "B" connector. The included 15V DC wall plug-in UL/CSA listed AC power adapter is connected using a power jack.

AC Power Adapter

To apply power to the VET550 scale using the supplied 100 to 240V AC 15V DC 300 mA wall plug-in UL/CUL listed AC power adapter, insert the plug from the power adapter cable into the power jack on the right side of the display and then plug AC power adapter into the proper electrical outlet.

SETUP AND INSTALLATION, CONT.

USB Port ⟜⟨USB symbol⟩

The USB port on the VET550 Digital Veterinary Scale may be connected to a computer for transmission of weight data to an EMR (electronic medical record) software program. The weight data will be transmitted automatically (if selected in Configuration) once the weight is stable or also selected in Configuration when a weight request from the host computer is received. For a breakdown of the data format transmitted, refer to the **PRINT OUTPUT SETTING DATA FORMAT** section of this manual.

TARE SWITCH

The tare switch is not used on the VET550 Digital Veterinary Scale.

Batteries

The VET550 Digital Veterinary Scale can use (4) AA 1.5V alkaline batteries (*not included*). If you wish to operate the scale from batteries, you must first obtain and install the batteries before operations can begin. Batteries are contained in a battery holder inside the display. Access is via a removable door on the back of the display.

Battery Installation/Replacement

The VET550 Digital Veterinary Scale operates from four (4) AA batteries. Note that Alkaline are recommended. To install or replace the batteries, the following steps should be followed:

1. Remove the weight display from the weight display mounting bracket.

2. Unplug the display cable from the bottom of the weight display.

3. Place the display face down on a flat surface.

4. Remove the battery compartment door.

5. When installing new batteries, proceed to step 6. When replacing the batteries, remove all four batteries from the battery holder and then proceed to step 6.

6. Install the four new batteries in the battery holder noting the polarity markings located in the battery holder.

7. Replace the battery compartment door.

8. Turn the weight display over (display facing up), and then press the **ON/OFF** key.

9. If the display turns on, the batteries have been installed correctly. If not, remove the battery compartment door and check for one or more improperly positioned batteries.

10. Plug the display cable into the bottom of the weight display and then set the weight display on the bracket.

11. The scale is now ready for operation.

KEY FUNCTIONS

VET550   **DETECTO**

kg ▲ lb   oz   g

HOLD

NET

Capacity: 550 lb x 0.2 lb / 250 kg x 0.1 kg

HOLD   ON/OFF
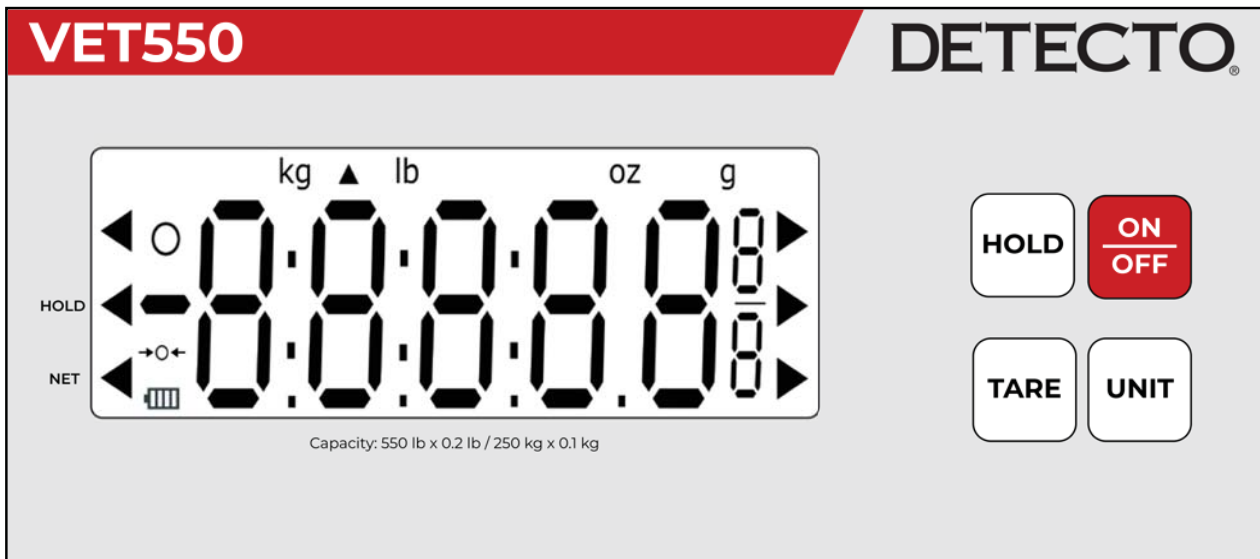
TARE   UNIT

ON/OFF
Press and release the **ON/OFF** key to turn the scale On or Off.

UNIT
Press the **UNIT** key to change the weighing units to the alternate units of measurement (if selected during the configuration of the scale).

TARE
1. Press the **TARE** key to zero the weight display or to Tare the weight of a container (e.g., a basket, box, or crate) up to 100% of the scale capacity.

2. Press and hold the **TARE** key to enter the Configuration mode.

HOLD
1. Press to turn the Hold function On or Off.

2. In the Configuration mode, press to toggle between the settings for each configuration parameter, and then advance to the next menu.

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

DISPLAY ANNUNCIATORS

The display annunciators are turned on to indicate that the scale display is in the mode corresponding to the annunciator label or that the status indicated by the label is active.

O
This annunciator will be turned on when the weight display is stable.

▬
This annunciator will be turned on when a negative (minus) weight is displayed.

→O←
This annunciator will be turned on when the scale weight has been zeroed.

Hold ◀
This annunciator will be turned on after pressing the **HOLD** key.

NET ◀
This annunciator will be turned on after pressing the **TARE** key to Tare the weight of a container (e.g., a basket, box, or crate) on the scale.

kg
This annunciator will be turned on to indicate that the displayed weight is in kilograms.

lb
This annunciator will be turned on to indicate that the displayed weight is in pounds.

Lo (Low Battery)
When the batteries are near the point they need to be replaced, a low battery indicator on the display will turn on. If the voltage drops too low for accurate weighing, the scale will automatically shut off and you will be unable to turn it back on. When the low battery indicator is displayed, the operator should replace the batteries or remove the batteries and plug the AC power adapter into the scale and then into the proper electrical wall outlet.

OPERATION

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

Turn the Scale On

Press the **ON/OFF** key to turn the scale on. The scale display will show all segments and then change to the selected weighing units.

Select the Weighing Unit

Press the **UNIT** key to alternate between the selected weighing units.

NOTE: Multiple weighing units must be enabled during configuration for this function to be operational.

Weighing an Item

Place the animal to be weighed on the scale platform. Wait a moment for the scale display to stabilize, then read the weight.

To Zero or Tare the Weight Display

1. To zero the scale display or to tare the weight of a container (e.g., a basket, box, or crate) on the scale, press the **TARE** key.

2. If nothing is on the scale when the **TARE** key is pressed, the scale will zero the weight display.

3. If a container is on the scale when pressed, the scale will enter the Tare mode and the NET annunciator will be turned on.

NOTE: This is useful when weighing an animal in a container (e.g., a basket, box, or crate). To control the total weight, the weight of the container must be retrieved first.

Hold Weight Display

1. To hold the weight on the scale display, press the **HOLD** key.

2. The scale display will display H ₋ on and flash the HOLD annunciator.

3. Place the animal on the scale.

4. When the weight stabilizes, the scale display will show and hold the weight, and the HOLD annunciator will be steady.

5. Press the **HOLD** or **TARE** key to exit the Hold mode.

Turn the Scale Off

With the scale turned on, press the **ON/OFF** key to turn the scale off.

CONFIGURATION

The VET550 Digital Veterinary Scale has been pre-configured at the factory and should not require changes to use in most applications. If the factory settings do not meet the requirements of your application, the following describes the steps to change the configuration of the scale.

To Begin Configuration:

1. Press the **ON/OFF** key to turn on the scale.

2. Press and hold the **TARE** key until the display changes to *SEt*.

3. Release the **TARE** key.

4. The display will change to *Unit* (Weighing Units).

Unit (Weighing Units)

The default setting is lb and kg (pounds and kilograms).

To select the desired weighing units:

1. With the display showing *Unit*, press the **TARE** key. The display will change to "kg".

2. Press the **TARE** key to show the status of "kg".

3. Press the **HOLD** key to toggle between: ON or OFF.

4. Press the **TARE** key. The display will again show the weighing unit ("kg").

5. Press the **HOLD** key to advance the display to "lb".

6. Press the **TARE** key to show the status of "lb".

7. Press the **HOLD** key to toggle between: ON or OFF.

8. Press the **TARE** key. The display will again show the weighing unit ("lb").

9. Press the **HOLD** key.

10. Proceed to *AOFF* (**Automatic Shutoff).**

AOFF (Automatic Shutoff)

The default setting is 120 seconds.

1. With the display showing *Unit*, press the **HOLD** key.

2. The display will change to show *AOFF*.

3. Press the **TARE** key to begin the selection of the automatic shut-off time (in seconds).

4. The display will change to show the current setting.

5. Press the **HOLD** key to toggle through the selections,
    120S, *180S*, *240S*, *300S*, or *OFF*.

6. When the desired time is displayed, press the **TARE** key.

7. Press the **HOLD** key.

8. Proceed to *bUrr* (**Beeper/Buzzer)**.

CONFIGURATION, CONT.

b∪⊓⊓ (Buzzer/Beeper)

The default setting is Buzzer/Beeper Off.

1. With the display showing AOFF, press the **HOLD** key.

2. The display will change to show b∪⊓⊓.

3. Press the **TARE** key to show the buzzer/beeper status.

4. Press the **HOLD** key to toggle between:

Enabled: The display will change to On.

Disabled: The display will change to OFF.

5. Press the **TARE** key.

6. Press the **HOLD** key.

7. Proceed to bAAL (**Backlight)**.

bAAL (Backlight)

The default setting is Auto.

1. With the display showing b∪⊓⊓, press the press **HOLD** key.

2. The display will change to show bAAL.

3. Press the **TARE** key to show the Backlight status.

4. Press the **HOLD** key to toggle between ON, OFF, or AUTO.

    a. ON: The backlight is always on.

    b. OFF: The backlight is always OFF.

    c. AUTO: The backlight is only on during weighing.

5. When the desired state is displayed, press the **TARE** key.

6. Press the **HOLD** key.

7. Proceed to PSEt (**Print Output Setting).**

PSEt (Print Output Setting)

The default setting is Off.

1. With the display showing bAAL, press the press **HOLD** key.

2. The display will change to show PSEt.

3. Press the **TARE** key to show the Print Output Setting status.

4. Press the **HOLD** key to toggle between Auto or OFF.

• Auto: The scale will transmit the data continuously when the weight is stable.

• OFF: The scale will transmit the data one time after receiving a "P" or "p" command.

5. When the desired state is displayed press the **TARE** key.

6. Press the **HOLD** key to proceed to End.

End

Press the **HOLD** key to return to the beginning of Configuration or press the **TARE** key to exit Configuration and return to normal scale operation.

PRINT OUTPUT SETTING DATA FORMAT

The VET550 Digital Veterinary Scale weight display USB port can be connected to a computer for transmission of weight data to an EMR (electronic medical record) software program. The VET550 can be configured to transmit the weight data continuously (when the weight becomes stable) or one time when receiving a weight request "P" (50h) or "p" (70h) from the host computer. This is known as Weight-On-Demand. Examples and explanations of the data format transmitted are shown below.

- If *Auto* is selected for *PSEt* (Print Output Setting), the scale will transmit the weight data continuously when the weight becomes stable.

- If *OFF* was selected for *PSEt* (Print Output Setting), the scale will transmit weight data one time when receiving a weight request "P" (50h) or "p" (70h) from the host computer.

When the weight is stable or the scale receives a "P" (50h) or "p" (70h) command:
The scale will respond with the following 31-byte weight strings:

Line 1 – Gross Weight
  Unit: kg/lb(d)
    <GROSS><SP><WEIGHT><SP><SP><SP><SP><SP><SP><W><W><W><W><W><W>
    <W><SP><U2><U2><CR><LF><LF>
  Unit: lb(f)
    <GROSS><SP><WEIGHT><SP><SP><SP><SP><SP><SP><W><W><W><SP><W><S>
    <W><SP><U2><U2><CR><LF><LF>

Line 2 – Tare Weight
  Unit: kg/lb(d)
    <TARE><SP><WEIGHT><SP><SP><SP><SP><SP><SP><W><W><W><W><W><W><W>
    <SP><U2><U2><CR><LF><LF>
  Unit: lb(f)
    <TARE><SP><WEIGHT><SP><SP><SP><SP><SP><SP><W><W><W><SP><W><S><W>
    <SP><U2><U2><CR><LF><LF>

Line 3 – Net Weight
  Unit: kg/lb(d)
    <NET><SP><WEIGHT><SP><SP><SP><SP><SP><SP><W><W><W><W><W><W><W>
    <SP><U2><U2><CR><LF><LF>
  Unit: lb(f)
    <NET><SP><WEIGHT><SP><SP><SP><SP><SP><SP><W><W><W><SP><W><S><W>
    <SP><U2><U2><CR><LF><LF>

Line 4 – Spacing Line
    <SP><SP><SP><SP><SP><SP><SP><SP><SP><SP><SP><SP><SP><SP><SP><SP>
    <SP><SP><SP><SP><SP><SP><SP><SP><SP><SP><CR><LF><LF><LF><LF>

Where:

<SP> =	Space	20h (" ")
<W> =	Weight	30h~39h ("0~9") or 20h (" ") or 2Dh ("-") or 2Eh (".")
<U2> =	Units	6B 67h (kg) or 6C 62h (lb)
<CR> =	Carriage Return	0Dh
<LF> =	Line Feed	0Ah
<S> =	Slash	2Fh ("/") or 20h (" ")
(d) =	Indicates display with decimal point	
(f) =	Indicates display with fractions	

Examples:

```
GROSS WEIGHT        80.0 kg     GROSS WEIGHT       178.4 lb     GROSS WEIGHT       178 1/2 lb

TARE WEIGHT          0.0 kg     TARE WEIGHT          2.0 lb     TARE WEIGHT          2     lb

NET WEIGHT          80.0 kg     NET WEIGHT         176.4 lb     NET WEIGHT         176 1/2 lb
```

DISPLAY MESSAGES

The VET550 Digital Veterinary Scale is equipped with software that tests various portions of the scale's circuitry and verifies proper operation. Should a problem be detected, a message will be displayed alerting the operator to that condition. The following lists the messages displayed, their meaning, and a possible solution.

MESSAGE	MEANING	POSSIBLE SOLUTION
Lo	The batteries are near the point where they need to be replaced. **NOTE:** If the battery voltage drops too low for accurate weighing, the scale will automatically shut off and you will be unable to turn it back on.	To continue to operate the scale, replace the batteries or remove the batteries and plug the AC power adapter into the scale and then into the proper electrical wall outlet.
Err	This error is displayed when the weight on the scale exceeds the scale capacity.	• Remove the weight on the scale to clear the error and try again. • Make sure the scale platform is not touching an adjacent object. • If the error continues, please consult your scale service representative.
Errd	This error indicates an analog-to-digital converter failure and the scale will turn off in three (3) seconds.	Please consult your scale service representative.
ErrC	This error indicates a Calibration mode failure.	Please consult your scale service representative.

CARE AND MAINTENANCE

The heart of the VET550 Digital Veterinary Scale is four precision load cells located in each corner of the scale base. It will provide accurate operation indefinitely if protected against overload of scale capacity, dropping items on the scale, or other extreme shocks.

- **DO NOT** submerge the scale or display in water, pour or spray water directly on them.
- **DO NOT** use acetone, thinner, or other volatile solvents for cleaning.
- **DO NOT** expose scale or display to direct sunlight or temperature extremes.
- **DO NOT** place the scale in front of heating or cooling vents.
- **DO** clean the scale and display with a damp soft cloth and mild non-abrasive detergent.
- **DO** remove the power before cleaning with a damp cloth.
- **DO** provide clean AC power and adequate protection against lightning damage.
- **DO** keep surroundings clear to provide clean and adequate air circulation.

CALIBRATION PROCEDURE

This scale was calibrated at the factory and should not require adjustment. In the event the scale should need recalibration, the following describes the calibration of the VET550 Digital Veterinary Scale. A qualified technician should perform this function to maintain the instrument's high degree of accuracy.

Before beginning calibration, the following equipment is required:

200 kg calibrated test weight

To begin calibration:

1. Make certain the scale platform is empty and the scale is off.

2. Press and hold **ON/OFF** key.

3. Press the **UNIT** key three times and then release the **ON/OFF** key.

4. The display will show the raw counts.

5. Press **TARE** key once, the display shows *0* lb.

6. Place the 200 kg calibrated test weight on the scale.

7. The display shows the span counts.

8. Press **TARE** key once, and display shows *CAL* then *200.0* kg.

9. The calibration is complete and can return to normal weighing operation.

STATEMENT OF LIMITED WARRANTY

DETECTO 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 **two (2) years 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 replace the product at no charge to the buyer upon inspection of the returned item.

After the first ninety (90) days, upon inspection of the returned item, DETECTO will repair or replace it with a remanufactured product. The customer is responsible for paying for the freight both ways.

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 the product to be returned to the factory; item(s) 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 items lost or damaged in transit.

Conditions Which Void Limited Warranty

This warranty shall not apply to equipment which:
A.) Has been tampered with, defaced, mishandled or has had repairs and modifications not authorized by DETECTO.
B.) Has had serial number altered, defaced, or removed.
C.) Has not been properly 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.