Digi-Star ★

STOCKWEIGH SCALE

MODEL 3300 AND MODEL 6600
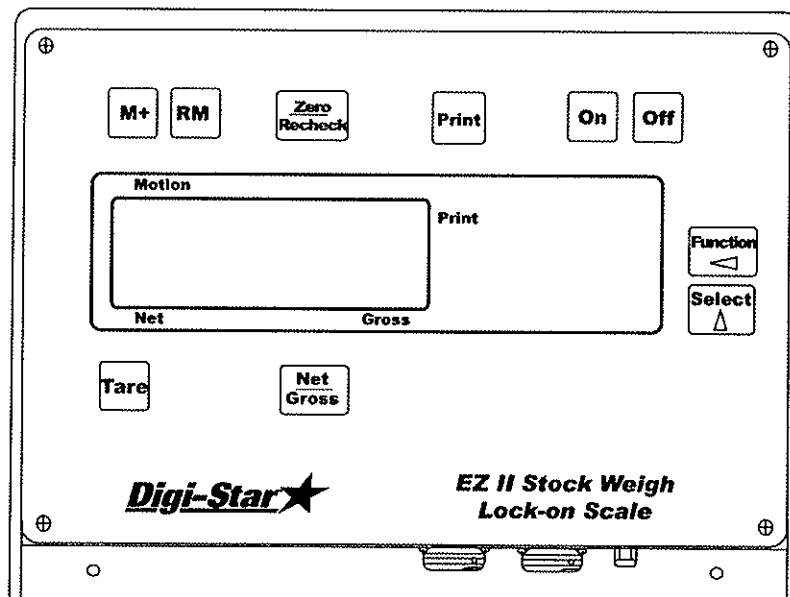
INSTALLATION AND OPERATION GUIDE

TABLE OF CONTENTS

INTRODUCTION

The Digi-Star EZII Stockweigh is a highly reliable scale designed for weighing live animals. The new Auto-Lock feature allows this scale to weigh active and restless animals within ±1% of actual weight.

The EZII Stockweigh Model 3300 has a gross capacity of 3300 lbs. (1500 kgs.). The Model 6600 is rated for 6600 lbs. (3000 kgs.) gross capacity.

DIGI-STAR WARRANTY

GUARANTEE

Digi-Star warrants correcting by repair or replacement, at Digi-Star's option, any defect in material or workmanship in any part of electronic scale products (unless otherwise specified on selected products). In the event of replacement, Digi-Star's sole obligation shall be to provide replacement product or parts, FOB. Check with your dealer or OEM for specific duration.

LIMITATIONS

This Limited Warranty does not apply to electronic scale products, accessories or parts not manufactured by Digi-Star, except to the extent of the warranty given by the actual manufacturer thereof. Furthermore, this warranty shall not apply to:

1. Parts or products requiring replacement due to normal wear and tear, or due to improper installation, abuse, neglect or required maintenance, accident, fire, lightning or other acts of God.
2. Equipment that has been repaired or modified by person(s) not authorized by Digi-Star, which in Digi-Star's judgment has affected the performance or reliability.

Digi-Star does not warrant any part or product to meet local, municipal, state, provincial or national laws and/or regulations.

EXCLUSION OF OTHER WARRANTIES AND REMEDIES

Except where such disclaimers and exclusions are specifically prohibited by applicable law, the foregoing sets forth the ONLY GUARANTEE or warranty applicable to this transaction, and such warranty is given expressly and in lieu of all other warranties, express or implied, or merchantability and fitness for a particular purpose and all such implied warranties which exceed or differ from the warranty set forth herein are hereby disclaimed by Digi-Star. Oral statements about the products covered by this transaction made by Digi-Star's representatives, or statements contained in Digi-Star's general advertising, pamphlets, brochures, or other printed matter, shall not constitute warranties. Except where such limitations and exclusions are specifically prohibited by applicable law, the sole and exclusive remedy against Digi-Star shall be for the repair or replacement of defective parts as provided, and no other remedy (including but not limited to incidental, special, indirect, or consequential damages for lost profits, lost sales, injury to persons or property, or an other loss) shall be available. This exclusive remedy shall not be deemed to have failed of its essential purpose as long as Digi-Star is willing and able to repair or replace defective parts in the prescribed manner.

PRODUCT CHANGES AND IMPROVEMENTS

We reserve the right to make changes in design, to add improvements to or otherwise modify our electronic scale products without incurring an obligation on goods previously purchased and to discontinue supplying any parts listed when the demand does not warrant production.

Digi-Star★

790 W Rockwell Avenue, Fort Atkinson, WI 53538

EZII SCALE PARTS
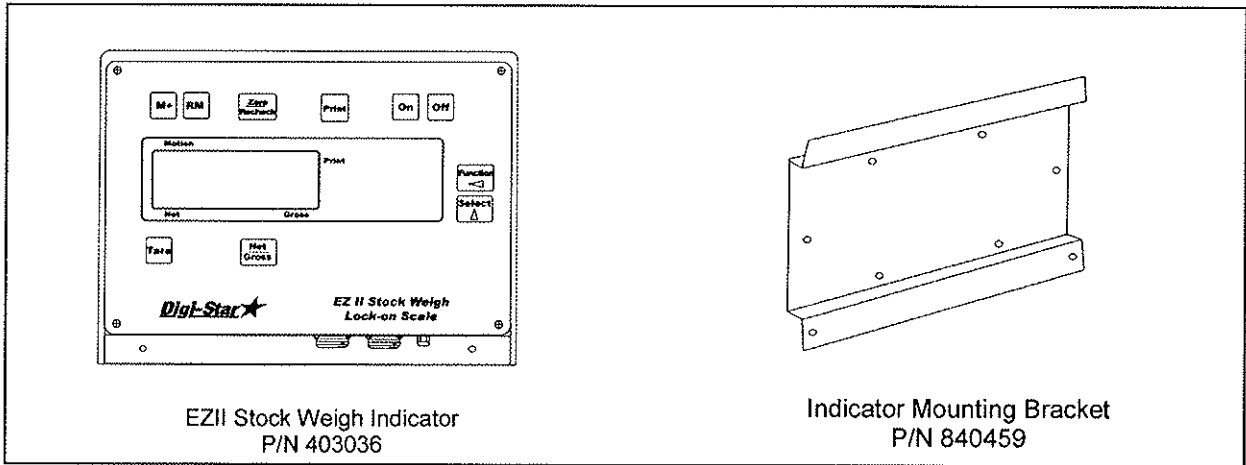
EZII Stock Weigh Indicator
P/N 403036

Indicator Mounting Bracket
P/N 840459

EZII Stockweigh Indicator Pack P/N 403091 – Includes one EZII Stockweigh Indicator and one Mounting Bracket

Load Cells:	Model 3300	16" – P/N 148042	24" – P/N 146769	33½" – P/N 400144
	Model 6600	33½" – P/N 400058	44" – P/N 400006	
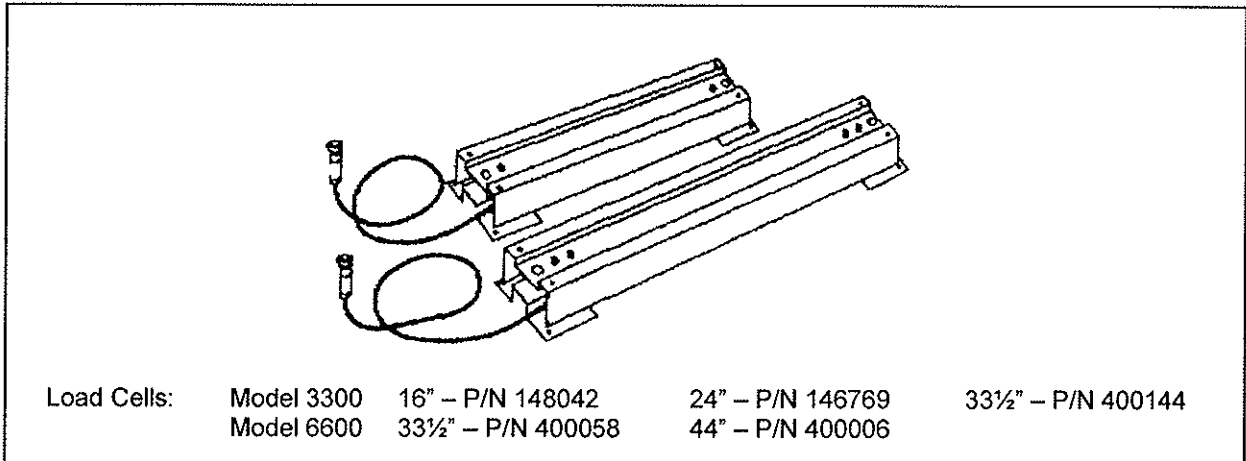
110 AC to 12V DC Converter 6' Cord P/N 148156
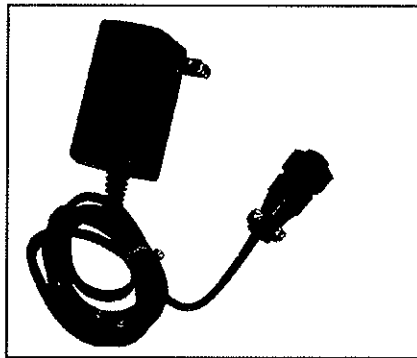
OR
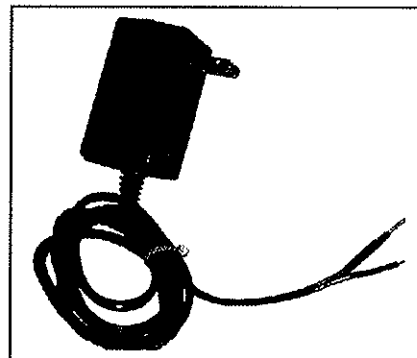
Separate 10' Power Cord P/N 146698 and Power Converter with 6' Cord P/N 146030

EZII SCALE ACCESSORIES

PRE-FABRICATED STEEL DECKS ARE AVAILABLE:		
30" X 30"	MODEL 3300	P/N 148151
48" X 48"	MODEL 6600	P/N 148152

STOCKWEIGH SPECIFICATIONS

Gross Capacity
Model 3300:   3300 lbs. Maximum
Model 6600:   6600 lbs. Maximum

Accuracy: ±1% and ±1Display Increment

Load Cell Overall Dimensions
Model 3300:   3¾" H x 8¼" W x 16, 24 & 33½" L
Model 6600:   3¾" H x 8¼" W x 33½ & 44" L

Load Cell Cable Length: 14 Feet

Resolution (For Both Models)

Increment	Range
1 lbs or kgs	0-300 lbs or kgs
2 lbs or kgs	300-600 lbs or kgs
5 lbs or kgs	600 ⇨ lbs or kgs

Power Requirements: 12-14 VDC @ approx 1 Amp

AC to DC Converter
110 VAC to 13.8VDC @ 1.2 Amps

INITIAL SET UP

Scale Configuration

LOAD CELL DIMENSIONS

Model 3300

	A	B	C	D	E	F	G	H
148042 16" SW 3300	16"	12.19"	N/A	7.75"	8.25"	7.25"	15.5"	.625" X 1.0" SLOT
146769 24" SW 3300	23.5"	19.69"	17.19"	11.5"	8.25"	7.25"	23"	.562" X 1.0" SLOT
148095 32" SW 3300	32.5"	31.5"	28.75"	N/A	6"	5"	32"	.406" HOLE
400144 32 1/2" SW 3300	32.5"	28.75"	23.5"	N/A	8.25"	7.25"	33.5"	.562" X 1.0" SLOT
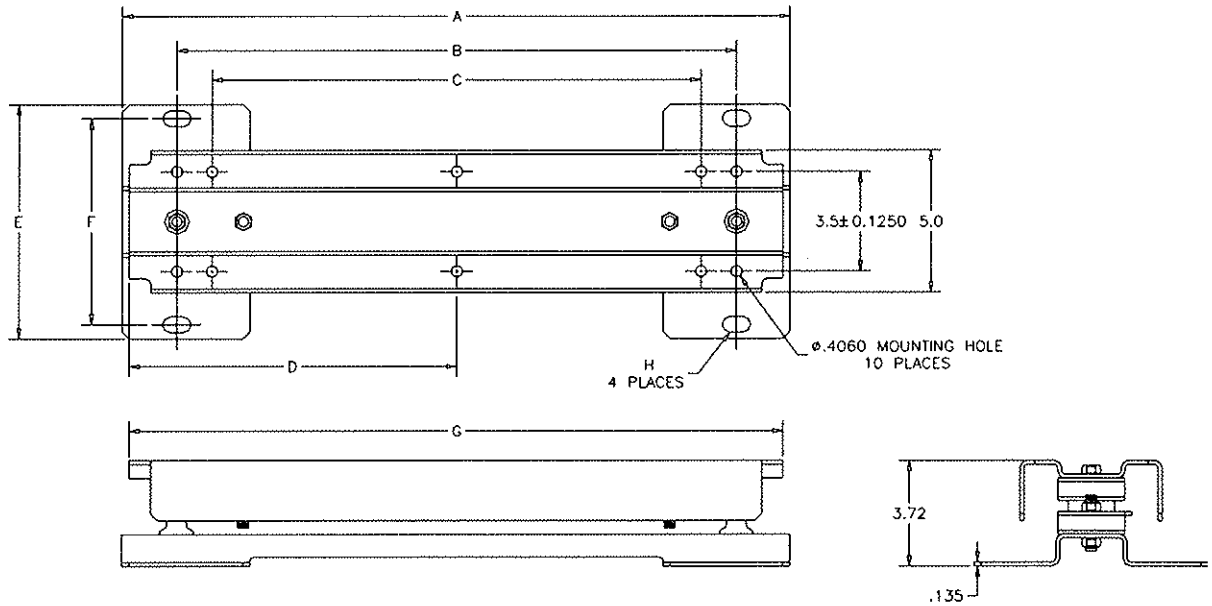
Model 6600

	A	B	C	D	E
400058 33.5" SW 6600	33.31"	29.5"	28.75"	32.5"	33.5"
400006 44" SW 6600	43.81"	40.0"	N/A	43.0"	44.0"
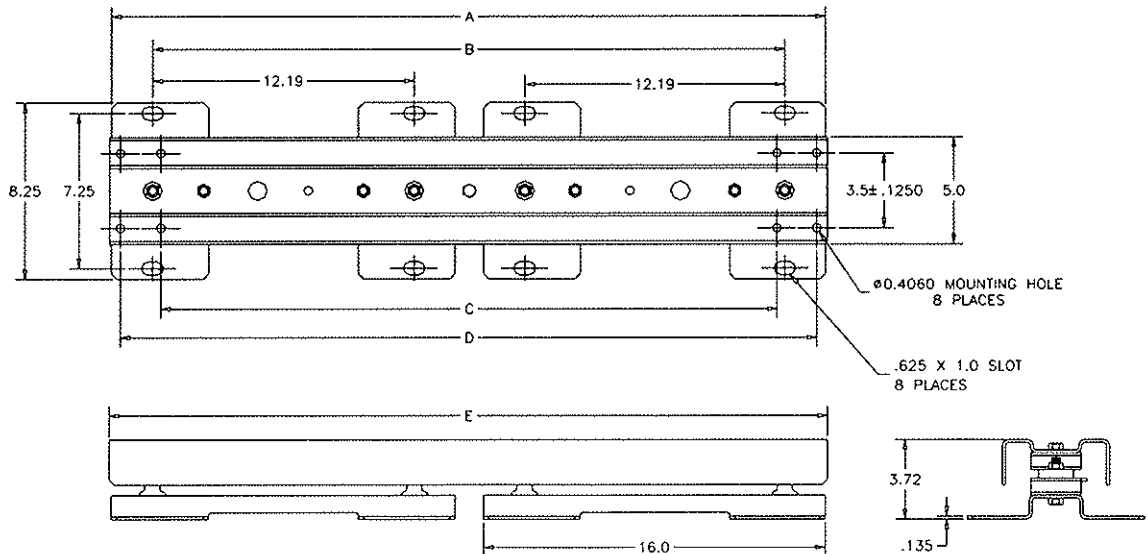
TYPICAL WOOD PLATFORM CONSTRUCTION

The following two platforms can be built using readily available building materials. Alternate decking material (plywood or steel grating) may be used if properly supported. An example of proper support could consist of either concrete or timber piers, or a concrete slab. Treated lumber is recommended for decking material.

If alternate deck sizes and/or materials are used, be aware that too much deck deflection will affect weighing accuracy. A heavy strong structure is better than a light one that flexes.

⚠ **CAUTION**

Do not weld to load cells with load cell cables connected to the indicator. If you must weld with load cells connected, locate welder ground so that current will not flow through the load cell.

Model 3300 (3300 LB [1500 KG] Gross Capacity)
This is a typical platform that may be used with the Stockweigh Model 3300.
Do not allow deck to overhang more than 6 inches past the edge of the load cell.
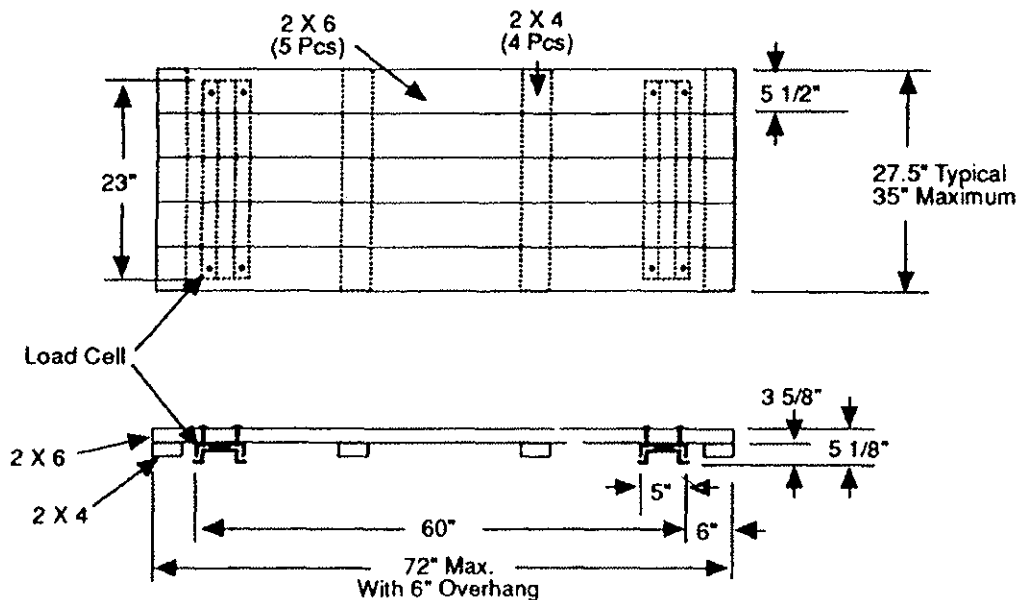
Stockweigh 6600 (6600 LB [3000 KG] Gross Capacity)

This plan is an example of a platform that may be used with the Stockweigh Model 6600. Do not allow deck to overhang more than 12 inches past the edge of the load cell.

Load Cell

12"

5"

2 X 8
(12 Pcs)

4 X 4
(3 Pcs)

96" Max.
with 12" overhang and
three 4 X 4 beams

44"   12"

68" Max.
With 12" Overhang

2 X 8

9 1/8"

4 X 4

4 1/8"

Load Cell
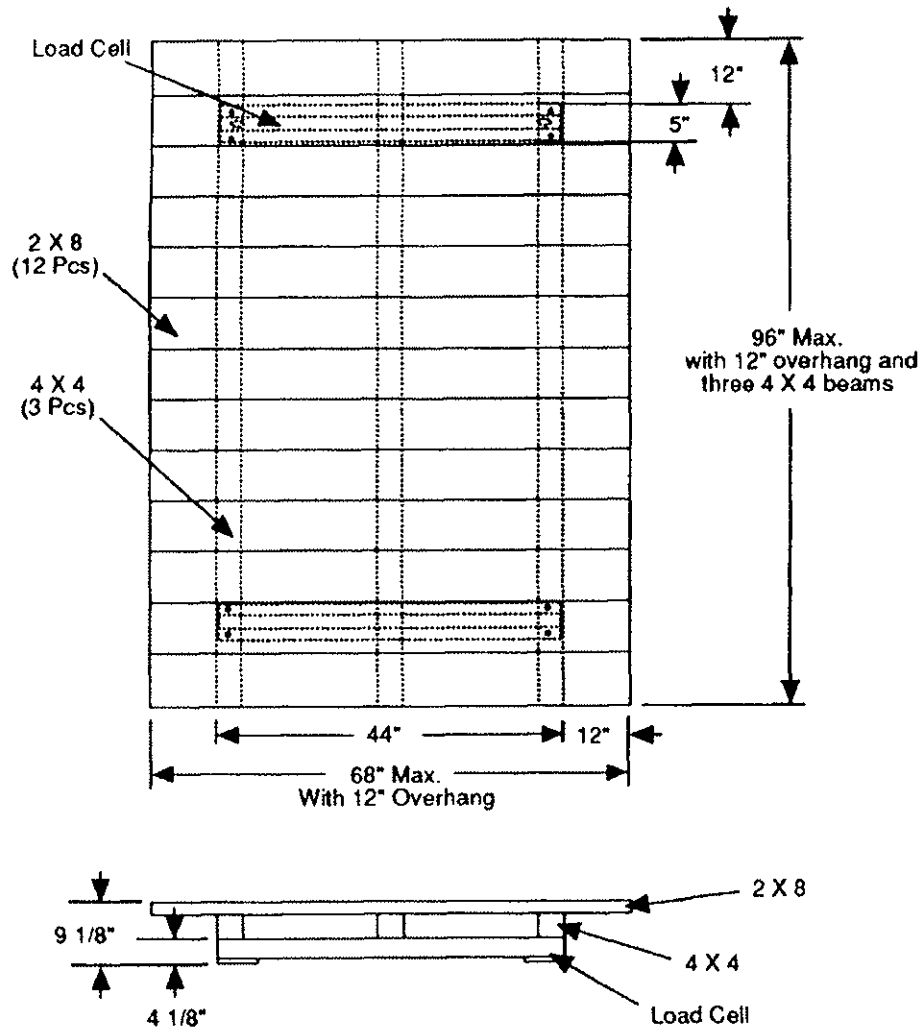
Turning ON the Scale:

Step 1:
Press [ON].

On
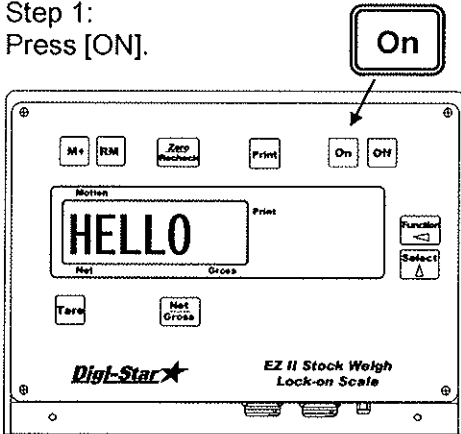
A brief message will be displayed (such as "HELLO"). The scale then selects the GROSS weighing mode.

GROSS mode displays the weight change since the unit was last ZERO/BALANCED.

Note: Pressing [ON] a second time during normal system operation starts the self test.

Turning OFF the Scale:

Step 1:
Press [OFF].

Off
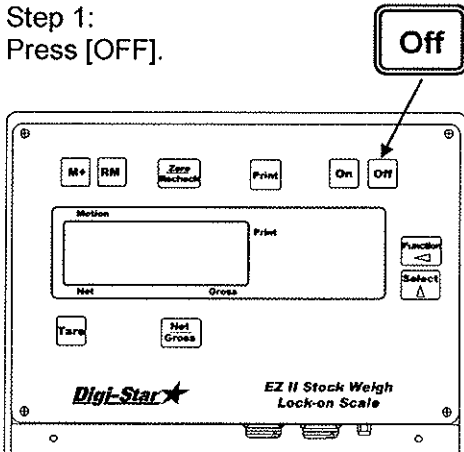
To Zero-Balance the Scale:

Step 1:
Press the [NET/GROSS] key and within three seconds,

Step 2:
Press the [ZERO/RECHECK] key.

Net Gross ⇨ **Zero Recheck**
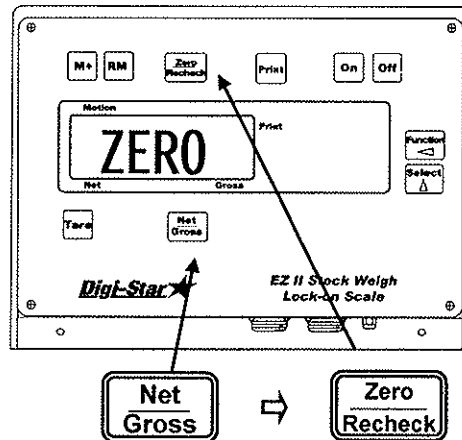
The **ZERO/BALANCE** will "balance off" the dead load such as a trailer, bin or platform weight.

"*ZERO*" is displayed to show completion of the step and the scale is then placed in the GROSS mode.

Pressing only the [ZERO/RECHECK] key will the message:
        "TO ZERO/BALANCE PRESS
        NET/GROSS – THEN ZERO"
to be displayed.

NOTE: If the Lock-On mode is enabled for animal weighing, then the [ZERO/RECHECK] key will cause the scale to recalculate the present Lock-On weight.

If the supply power is below the "low battery threshold" (10.5 Volts), the message *"INDICATOR CANNOT BE ZERO/BALANCED – LOW BATTERY VOLTAGE"* is displayed. The message *"LO BAT"* will be periodically shown on the display (approx. every five seconds) to alert the operator of the low battery condition.

To Select Gross Mode:

GROSS mode displays the weight change since the unit was last ZERO/BALANCED.

Step 1:
Press [NET/GROSS].


```
Net
Gross
```
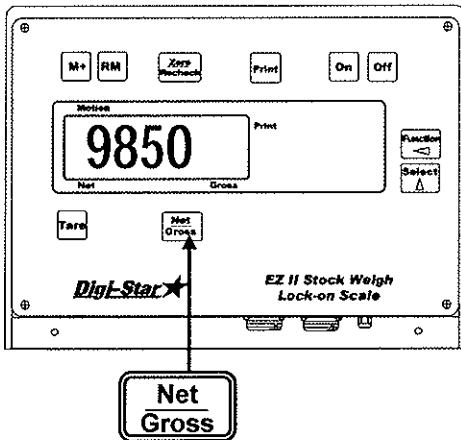
NOTE: The scale is in GROSS mode if there is a flashing arrow pointing toward the GROSS text just above the [NET/GROSS] key.

To Select Net Mode:

NET mode displays the weight change after a TARE has been performed. TARE is a temporary "zero" point.

Step 1:
If the scale "TARE" weight has not been entered, press [TARE] to acquire a "zero."

```
Tare
```
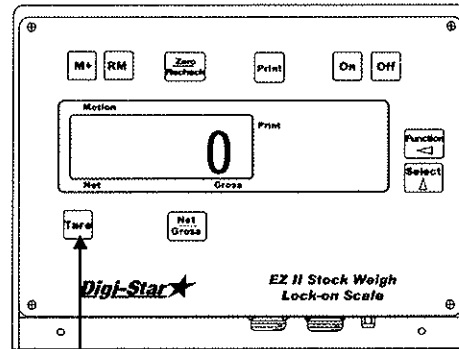

Or

Step 2:
If in Gross mode, press

[NET/GROSS]. The [NET/GROSS] key is an alternating action key. If the scale is in the GROSS mode, pressing the [NET/GROSS] key will place it in the NET mode. If the scale is in the NET mode, pressing the [NET/GROSS] key will place it in the GROSS mode.

If the "TARE" function has not been previously performed, the unit will stay in the Gross mode and the message "FOR NET MODE PRESS TARE" will scroll across the display.

NOTE: The scale is in NET mode if there is a flashing arrow pointing toward the NET text just above the [TARE] key.

LOCK-ON SETUP

Located in Menu 1 of the Long Form Setup will select a value 1 through 9 to adjust "Lock On" weigh method. By selecting a low value such as 1 or 2, the system becomes more sensitive to animal movement. Selecting a high number such as 8 or 9 will allow the scale to lock-on faster. Use the lowest setting that stills allows the system to consistently lock-on for greatest accuracy. The suggested default setting is 8.

To Print:

Scale data can be sent to a printer by pressing:

Print

Sample output is as shown below.

```
        10JA92  12:01P
123456 ID  123456LB GR
```

Enter Identification Number: ID#

1) Type in the ID number using the numeric pad:

1 A B C	2 D E F	3 G H I	4 J K L	5 M N O
6 P Q R	7 S T U	8 V W X	9 Y Z Space	0 + − •
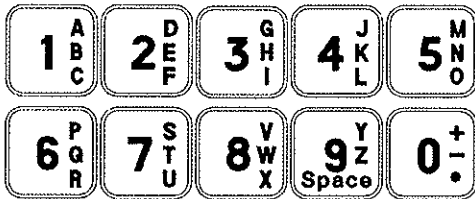
2) Press **I.D. #**

The ID# has now been entered into the indicator and it is ready to weigh.

Display Identification Number

Press **I.D. #**

Clear Identification Number from Memory

To clear the identification number from memory:

Press **Clear** followed by **I.D. #**

Add Weight to Weigh Memory

The displayed weight can be Stored in memory by pressing: **M +**

The weigh memory will be temporarily displayed.

If a weight was previously stored, the displayed weight is added to the weigh memory.

Recall Weigh Memory

The value of total weight in memory can be displayed by pressing: **RM**

The weigh memory will be temporarily displayed.

Clear Weigh Memory

The weigh memory is cleared by pressing:

Clear then **RM**

Print Weigh Memory

To print the value of total weight in memory:

Press **RM** followed by **Print**

Weigh Averaging

The Weigh Memory feature can also be used to determine the average weight of several loads. This is done by using the [M+] key to add multiple weight values to the weigh memory.

To display the average weight, press the [RM] key twice within three seconds.

The *"COUNT"* or number of weight values added to the weigh memory will be displayed first. Then the message *AVERAG"* is displayed, followed by the average weight value.

To print the average weight value, press the [PRINT] key while the average weight is displayed.

Animal Weighing

The *Lock-On* weigh method has the ability to determine the actual weight of items *while in motion,* such as animals. Once the actual weight is displayed, the scale *"Locks-On"* to the displayed weight and does not change, even if the motion never stops. A small 'L' appears on the left side of the display indicating the weight is *"Locked-On."* The animal's weight must be greater than 2.5% of the scales *"capacity"* weight before the system can *"Lock-On."*

In order to *break the lock,* 50% of the displayed weight must be either added or removed from the scale. The *"Locked-On"* weight can be *"rechecked"* by pressing the [ZERO] key on the front panel. This breaks the *"lock"* and the scale recalculates the weight.

WEIGHING ANIMALS WHILE UNLOADING:
With the animal loaded on the platform, push the "TARE" button. The scale now indicates zero with the animals on the scale. Remove an animal from the platform and the scale should indicate the weight of the animal.

WEIGHING ADDITIONAL ANIMALS:
Once the scale locks onto a weight, the scale will reactivate and start weighing when another animal is added to the platform.

For more information on selecting weigh method, please contact Digi-Star Technical Service at (920) 563-7900 and request Digi-Star Technical Manual (F3583).

Installation Requirements:

Indicator Mounting:
The indicator is easily attached to the Indicator Mounting Bracket by hooking the top over the plate and securing the bottom with two (2) bolts (size# 10 x 24 x ¾") and nuts.

Power Connection:
The power cable should be connected directly to a vehicle battery or regulated power supply. The scale end of the power cable is attached to the J901 connecter located on the bottom panel of the scale.

The indicator is fused internally at 4 Amps.

Load Cell Connection:
The indicator is designed to operate with two strain gage load cells. The system will optionally be supplied with a "Y" cable (P/N 148155) going between the scale and the load cell assembly. Extension kits are available from your dealer in various lengths.

IMPORTANT!
If the rear end of a working chute is not bolted solidly to a concrete foundation, then it must be restrained from movement greater than about one inch with a chain or other flexible means.
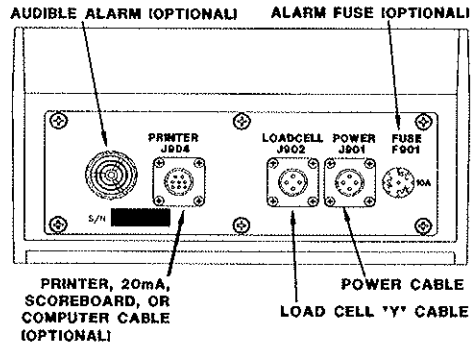
Technical Manual:
Technical manual available upon request. Please call (920) 563-9700 and request Digi-Star Technical Manual (F3583).
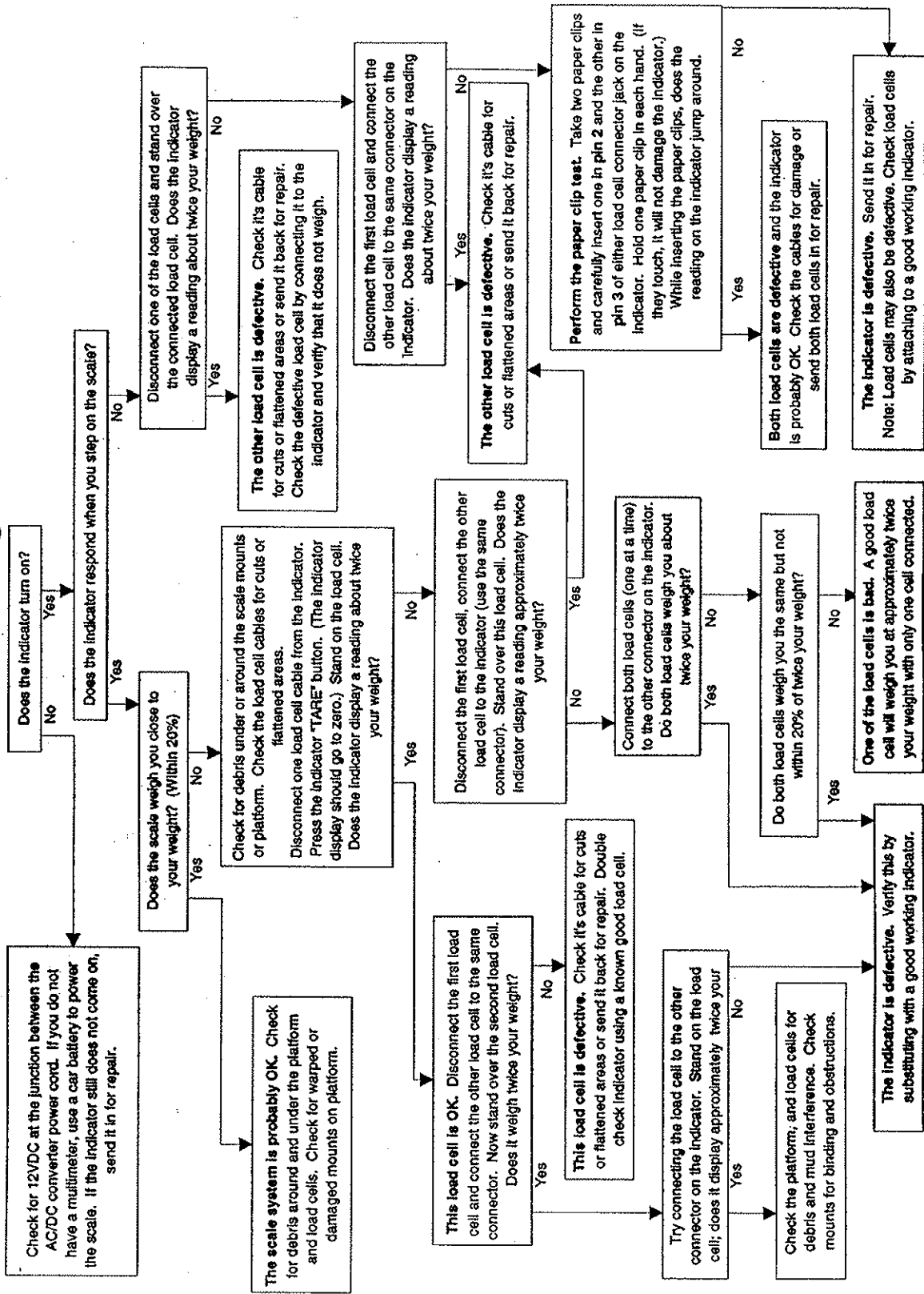
**STANDARD
SCALE BOTTOM PANEL
CABLE CONNECTIONS**
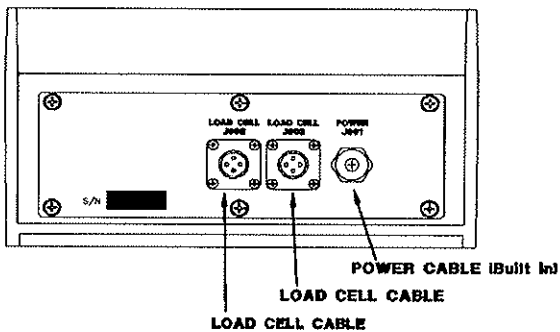
**OPTIONAL
SCALE BOTTOM PANEL
CABLE CONNECTIONS**

Troubleshooting Guide

Does the indicator turn on?

No → Check for 12VDC at the junction between the AC/DC converter power cord. If you do not have a multimeter, use a car battery to power the scale. If the indicator still does not come on, send it in for repair.

Yes → **Does the indicator respond when you step on the scale?**

No → **Does the scale weigh you close to your weight? (Within 20%)**

Yes → The scale system is probably OK. Check for debris around and under the platform and load cells. Check for warped or damaged mounts on platform.

No → Check for debris under or around the scale mounts or platform. Check the load cell cables for cuts or flattened areas.
Disconnect one load cell cable from the indicator. Press the indicator "TARE" button. (The indicator display should go to zero.) Stand on the load cell. Does the indicator display a reading about twice your weight?

Yes → This load cell is OK. Disconnect the first load cell and connect the other load cell to the same connector. Now stand over the second load cell. Does it weigh twice your weight?

Yes → This load cell is defective. Check it's cable for cuts or flattened areas or send it back for repair. Double check indicator using a known good load cell.

No → Try connecting the load cell to the other connector on the indicator. Stand on the load cell; does it display approximately twice your weight?

Yes → Check the platform; and load cells for debris and mud interference. Check mounts for binding and obstructions.

No → The indicator is defective. Verify this by substituting with a good working indicator.

No → Disconnect the first load cell, connect the other load cell to the indicator (use the same connector). Stand over this load cell. Does the indicator display a reading approximately twice your weight?

No → Connect both load cells (one at a time) to the other connector on the indicator. Do both load cells weigh you about twice your weight?

Yes → Do both load cells weigh you the same but not within 20% of twice your weight?

Yes → One of the load cells is bad. A good load cell will weigh you at approximately twice your weight with only one cell connected.

No → The indicator is defective. Verify this by substituting with a good working indicator.

Yes → Disconnect one of the load cells and stand over the connected load cell. Does the indicator display a reading about twice your weight?

Yes → Disconnect the first load cell and connect the other load cell to the same connector on the indicator. Does the indicator display a reading about twice your weight?

Yes → Perform the paper clip test. Take two paper clips and carefully insert one in pin 2 and the other in pin 3 of either load cell connector jack on the indicator. Hold one paper clip in each hand. (If they touch, it will not damage the indicator.) While inserting the paper clips, does the reading on the indicator jump around?

Yes → Both load cells are defective and the indicator is probably OK. Check the cables for damage or send both load cells in for repair.

No → The indicator is defective. Send it in for repair. Note: Load cells may also be defective. Check load cells by attaching to a good working indicator.

No → The other load cell is defective. Check it's cable for cuts or flattened areas or send it back for repair.

No → The other load cell is defective. Check it's cable for cuts or flattened areas or send it back for repair. Check the defective load cell by connecting it to the indicator and verify that it does not weigh.

Need help? Call Digi-Star Technical Service at 920-563-9700