

Digi-Star[®] ★

EZ3400 Operators Manual



Digi-Star ★

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CAB CONTROL (WIRELESS)



Features

- Wireless remote with full key control of indicator on mixer
- Mount remote in easy view of loading
- Improves loading accuracy

Functions

- Communicates with multiple mixers
- Easily call-up recipes without leaving loader

Specification

- Internally mounted 2.4 GHz radios
- Up to 1000 foot range
- 24 channels
- 12 or 24 volt DC system

For additional information go to www.digi-star.com

CHARGING BATTERY OR WELDING

Important Precaution

**Disconnect all indicator leads before charging battery or welding.
Damage may occur to indicator and load cells.**

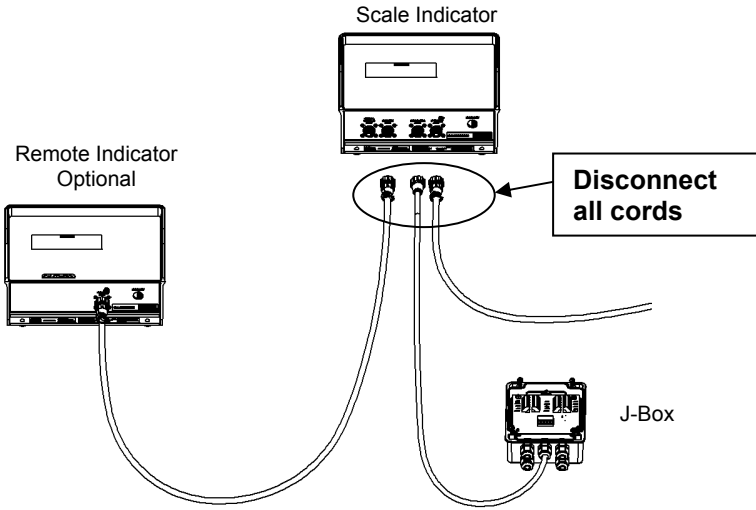
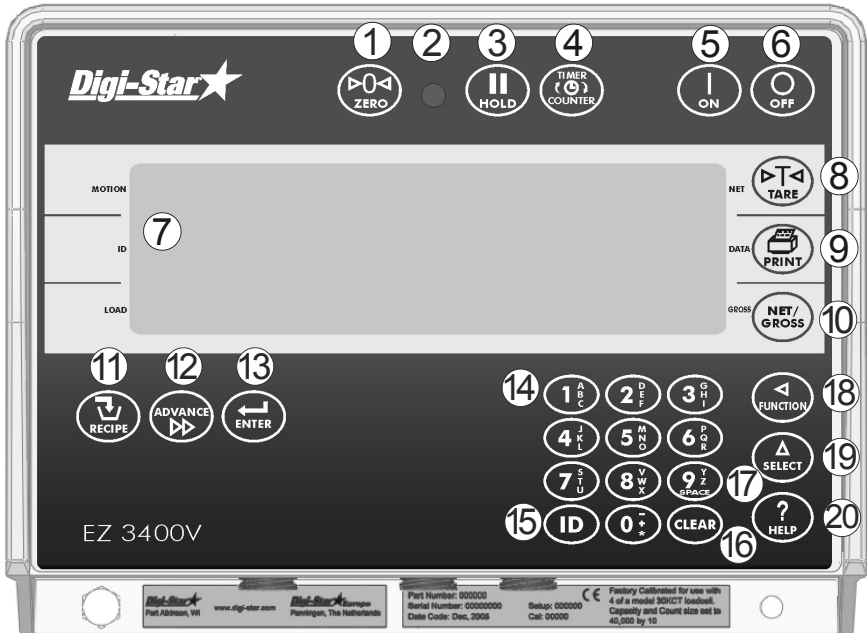



















Figure 1.

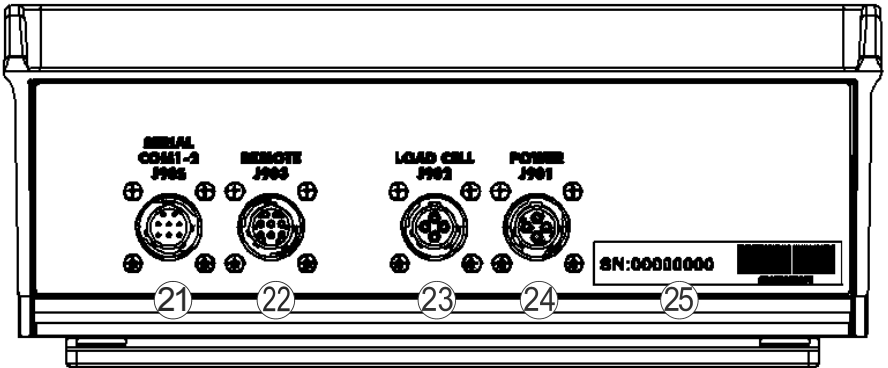
INDICATOR OVERVIEW



Note: See page 40-42 for installation instructions

- ①  – press and hold for 3 seconds to zero balance.
- ② Pre-Alarm Light – Starts flashing and alarm sounds when weight is within preset limit. See page 29.
- ③  – holds displayed weight when moving machine.
- ④  – See page 20 - 31.
- ⑤  – turns indicator on. Pressing while on will run self test.
- ⑥  – turns indicator off.
- ⑦ Display Window – Displays current actions.
- ⑧  – temporary zero (Net mode).
- ⑨  – records to memory or prints displayed weight.
- ⑩  – toggles between Net and Gross weights.

- ⑪  – selects recipes in memory, program recipes, see page 9
- ⑫  – proceeds to next item.
- ⑬  – accepts change or proceed to next item.
- ⑭ Keypad – input numbers or letters as required.
- ⑮  – used to enter label numbers for weight value to be displayed and printed.
- ⑯  – clear current command.
- ⑰  – add space in command.
- ⑱  – performs tasks displayed by select.
- ⑲  – displays additional tasks.
- ⑳  – view for additional information.




- ⑳ Serial/Printer Port – optional, communicate with computer and other digital input/output devices.
- ㉑ Remote Port – optional remote display.
- ㉒ Load Cell Port – for J-Box cord.
- ㉓ Power Port – for power cord.
- ㉔ Serial Number Plate – Serial Number of indicator.

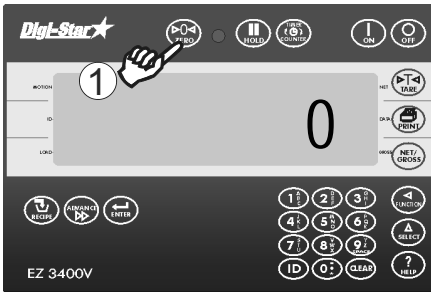
OPERATION

Turn on Indicator



1. Press .

Zero Balance Indicator



1. Press and hold  for 3 seconds to zero balance indicator.

PROGRAMMING RECIPES

Three different entry methods for entering ingredients:

Amount Per Animal (this is the default setting)

Allows entry of ingredient amounts required for feeding one animal. Indicator calculates preset amounts required for each ingredient.

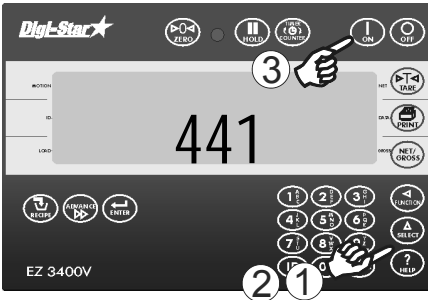
Percent (%) Per Load




Enter ingredient amounts in (%). Indicator calculates amounts for each ingredient. Total of all ingredients must equal 100% in this mode.

Amount Per Load

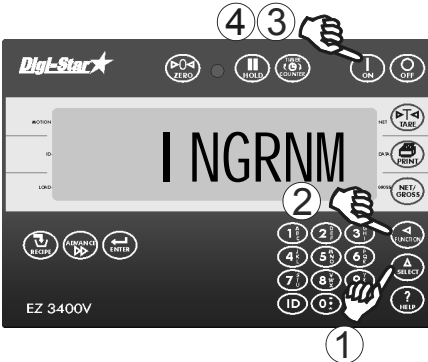
Allows entry of ingredient amounts required per load.





Change Entry Method

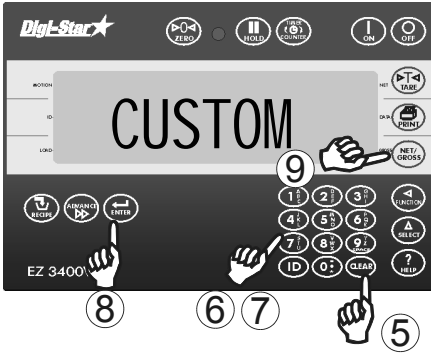


1. Enter **441** press .
2. Repeatedly press  scrolls following entry methods:
 - 1 = Amount per Animal
 - 2 = Percent (%) per Load
 - 3=Amount per Load
3. Press  sets entry method.

Ingredient Re-Name



- Ingredient names are listed in a standard table and can be changed using the following 9 steps.
1. Repeatedly press  until I NGRNM displays.
 2. Press .
 3. Press  shows ingredient.
 4. Press  again to edit name. Display briefly shows EDIT and flashing cursor displayed.



5. Repeatedly press **CLEAR** erases ingredient.
6. Press “1” key once enters 1 twice enters A three times for B other numbers on keypad work same.
7. Pause for one second after entering a number or letter and they shift to left so a new letter or number can be added.
8. Press **ENTER**.
9. Press **NET/GROSS** to exit.

Print Ingredient Names

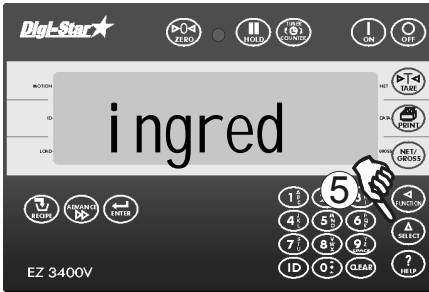


1. Press **ADVANCE** displays first ingredient.
2. Press **PRINT** prints total accumulations for this ingredient.
3. Press **PRINT** again prints accumulations for all ingredients currently used in all recipes.
4. Press **PRINT** again prints names for all ingredients. Ingredients not used by recipe, show unused.

Enter New Recipe




1. Press and hold **RECIPE** until indicator beeps and displays PROGRAM then displays either first recipe programmed or REC__. This indicates recipe number can be entered.
2. Press **CLEAR**.
3. Enter recipe number.
4. Press **ENTER** enters number.




5. Press  scrolls available ingredients.



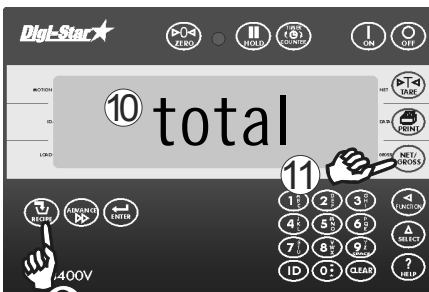
6. Press  to select ingredient on screen.


7. Enter amount of ingredient required. (see note)

8. Press  to store amount.

Repeat steps 5-8 for each ingredient required.

Note: In percent/load entry mode a 75% ingredient for example should be entered as 75.00 on display. 5.75% ingredient entered as 5.75.



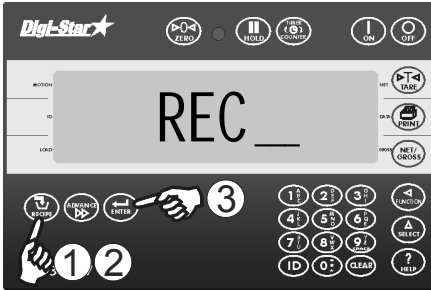
9. Press  completes recipe.




10. Indicator calculates and displays TOTAL amount of recipe.

Repeat steps 1 - 9 until all recipes programmed.


11. Press  to exit.

Change Ingredient Amount



1. Press and hold  until indicator beeps and displays PROGRAM.
2. Repeatedly press  until recipe number displayed.
3. Press  edits this recipe.



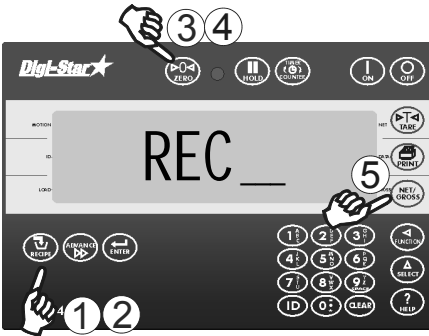
4. First ingredient name displayed followed by AMOUNT.
5. Enter new amount.
6.  stores and advances to next ingredient.

Repeat steps 5 & 6 for each ingredient changed.

Note: Only ingredient amounts can be changed. To add ingredients to recipe, first erase recipe then re-program recipe.

7. Press  completes recipe.
8. Press .

Erase A Recipe



1. Press and hold until indicator beeps and displays PROGRAM followed by first recipe number.
2. Repeatedly press until desired recipe number displayed.
3. Press and hold message press zero to erase recipe or net/gross to exit scrolls.
4. Press erases recipe.
5. Press exits.

Review A Recipe







1. Repeatedly press until recipe shown.
2. Press displays each ingredient, weight or % and total for recipe.
3. Press exits.

Printing Single Recipe






Note: Optional serial port must be installed for printing.

1. Press  displays first recipe. Repeatedly press  displays other recipes.
2. Press  prints recipe.
3. Press .



Printing All Recipes



1. Press  displays first recipe.
2. Press  print recipe.
3. Press  again prints all recipes in memory.

LOADING A RECIPE

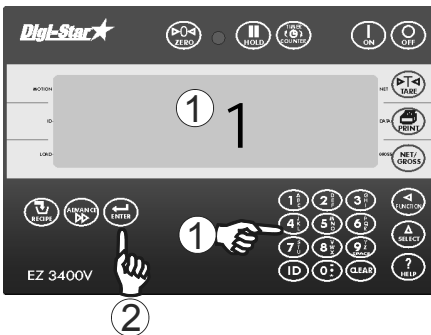
Using Amount Per Animal

1. Repeatedly press  until recipe displayed.
2. Press  to accept recipe.
3. Indicator displays LOADING RECIPE.



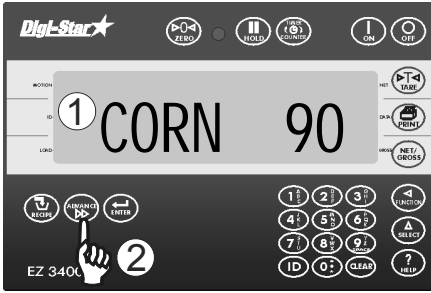
1. Indicator displays ANIMAL

Note: If using percent/load, TOTAMT will be displayed.



1. Indicator displays flashing number. Change number to amount of animals to feed.

2. Press 



1. Indicator displays ingredient to load and how much to load. As ingredient loaded indicator counts down to zero.
2. Press **ADVANCE** to next ingredient.
(See page 30 for auto advance)



1. After last ingredient loaded, indicator displays RECIPE COMPLETE TOTAL.

UNLOADING A RECIPE






1. Indicator displays recipe weight.
2. Begin unloading into a pen. As recipe unloads indicator displays recipe weight remaining.
3. Press **TARE** sets temporary zero if more than one pen gets same recipe.

ADVANCED COMMANDS

Hold mode

Hold mode prevents displayed weight from changing while moving.




1. Press  holds displayed weight, indicator flashes weight and HOLD.
2. Press  returns indicator back to normal.
3. If weight added while in hold mode, press  cancels hold.

Preset


Enter amount to be loaded or unloaded, alarm sounds as zero is approached.



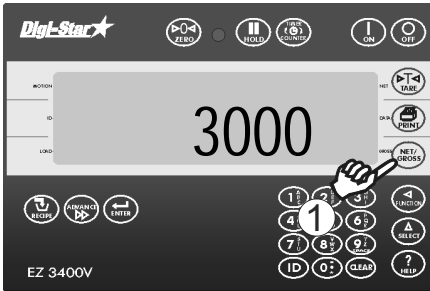
1. Enter desired preset weight.
2. Press  indicator rounds weight to nearest display count.
3. Once preset entered, display shows weight loaded or unloaded in one of three display modes shown on page 18.

Clear Preset Alarm



1. Press  to clear preset value.

Preset Displays Gross Mode



1. Press **NET/GROSS**.

As ingredients load or unload display counts up or down to preset value alternates between flashing word PRESET and amount, until 5 percent of weight is loaded or unloaded.

Load/Unload Mode



1. Press **ENTER**.

Displays amount remaining to load or unload. As ingredients are loaded or unloaded, display counts down from entered weight to zero.

Net Mode

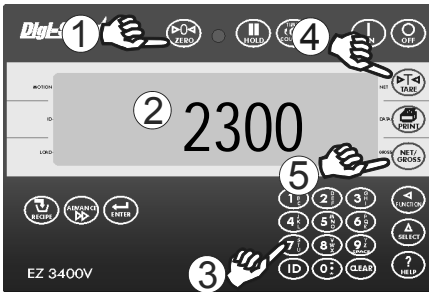




1. Press **NET/GROSS** twice.




Displays weight added since preset entered. As ingredients are loaded or unloaded, display counts up or down.

Preload A Tare Value

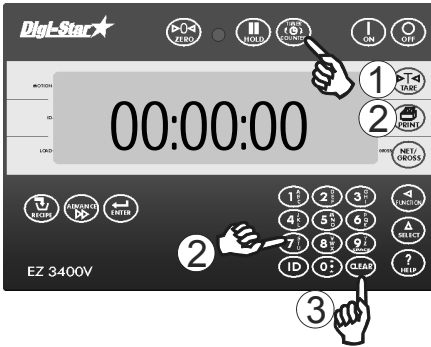
Weighing containers after already loaded. If weight of container is known, a tare weight is preloaded in indicator and only net weight displayed.



Pre-Tare: enter 405, press , press  to turn on.

1. Press and hold  for 3 seconds to zero balance the indicator.
2. Add weight to container.
3. Enter known weight of unloaded container.
4. Press .
5. Press .

Mixer Timer



1. Press **TIMER COUNTER**.
2. Enter time, press **TIMER COUNTER**. Time runs down, alarm sound and timer shows negative for over mixing of set time.
3. Press **CLEAR**.


Restart Mix Timer



1. Press **TIMER COUNTER** twice without entering value starts timer using previously time

SELECT/FUNCTION KEYS



1. Repeatedly pressing  gives following options:

Ingrnm: Rename ingredient.


Menu: View menus 1,2,3,4 and calibrate. See page 34.

Setup: Change setup and calibration numbers. See page 33.

M+: Adding weight to weight memory.

RM: Recall weight memory.

CM: Clear weight memory.

Dimmer: High/Low backlight control. Toggle between high/low using .

Accum: Displays amount of recipe ingredients loaded or unloaded.

Help: Explains operation of select and function key.

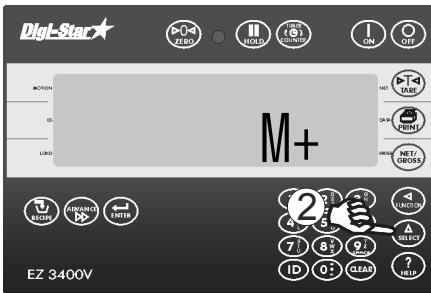
2. Press  activates option.


M+, RM, CM and Weight Averaging

Use these options to weigh truck or wagon one axle at a time.




1. Add first weight on scale.
Example: 500 pounds.



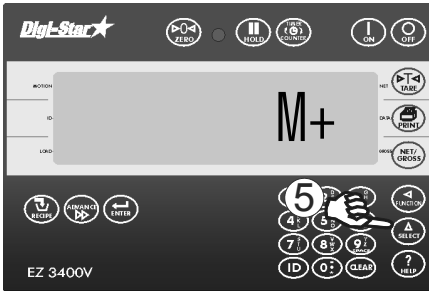
2. Repeatedly press  until M+ displayed.




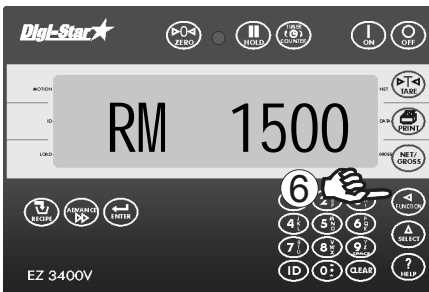
3. Press  500 pounds displayed and RM briefly shows on display. 500 pounds now added to memory and indicator in gross weight mode.



4. Another weight on scale. This case 1000 pounds.





5. Repeatedly press  until M+ displayed.



6. Press  indicator adds 1000 pounds to 500 pounds already in memory and RM flashes briefly.



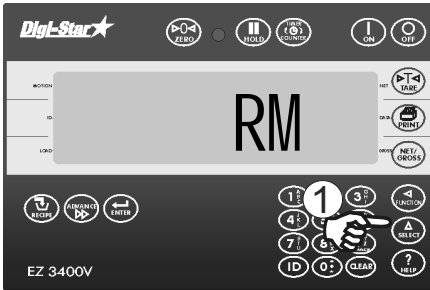
7. Repeatedly press  until RM displayed.


8. Press .

9. Total both weights, 1500 pounds, briefly displays and indicator switches to gross weight mode.


(See page 25 to print weight in memory.)

Weight Averaging



1. Repeatedly press  until RM displayed.



2. Press  twice within three seconds performs weight average.

3. Display shows COUNT 2 if number of individual weights to average is two. Example weight of 1000 pounds and 500 pounds averaged.




4. Displays AVERAG.



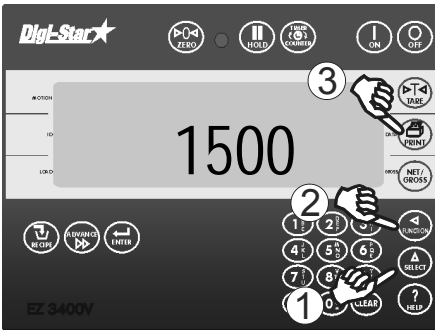
5. Display shows average of two weights in memory. After displaying average weight, indicator returns to gross weight mode.




Print Weight Average



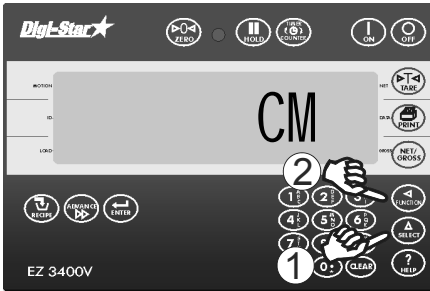
1. Press  while average weight displayed.



Print Weight Memory



1. Repeatedly press  until RM displayed.
2. Press .
3. Press  while weight in memory displayed.

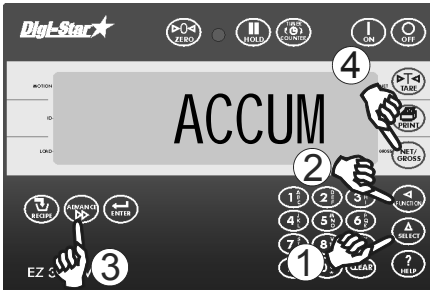
To clear memory







1. Repeatedly press  until CM displayed.
2. Press .

Review ingredient accumulation values



See total amount of each ingredient loaded since last time values were erased.




1. Repeatedly press  until ACCUM displayed.
2. Press .
3. Press  displays accumulation of other ingredients.
4. Press .

Erase accumulation ingredient values






1. Repeatedly press  until I NGRNM displayed.
2. Press  indicator briefly flashes PROGRAM and displays first ingredient.





3. Repeatedly press  until ingredient displayed. In this case corn silage.



4. Press .



5. Press and hold  while pressing  indicator scrolls PRESS AND HOLD ZERO KEY THEN PRESS ON TO ERASE CSI LAGE ACCUMMULATION—PRESS NET GROSS TO EXIT.


6. Press  erases ingredient accumulation for corn silage.


7. Press .

Print Accumulation Values - One Ingredient

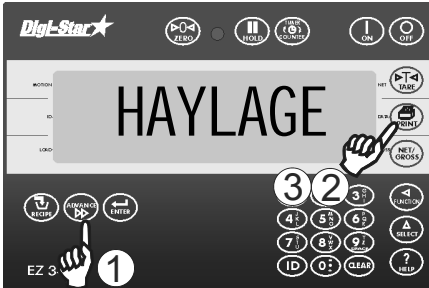





1. Press  displays first ingredient. Repeatedly press  displays other ingredients.

2. Press  prints accumulation value for that ingredient.

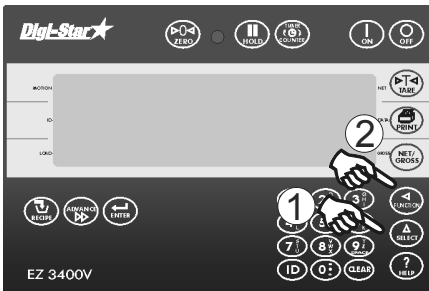
3. Press .




Print Accumulation Values - All Ingredients



1. Press  displays first ingredient.
2. Press  prints ingredient currently displayed.
3. Press  again prints all ingredients in memory.

Backlight Intensity

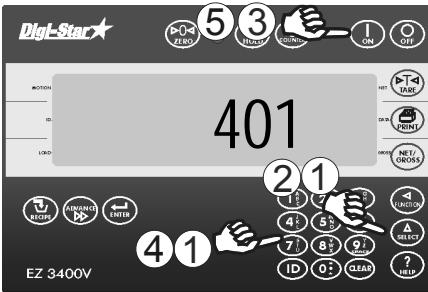






1. Press  until dimmer is displayed.
2. Press  reduces backlight intensity by 60%. Press  again for full intensity.

COMMONLY USED DIRECT ACCESS NUMBERS

Pre-Alarm

“Early Warning” for preset. Pre-alarm activates at weight or percentage of preset value.



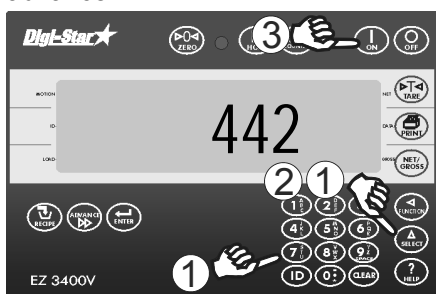
1. Enter **401** press .
2. Repeatedly press  choose weight or percent.
3. Press .
4. Change number.
5. Press  stores setting.

Auto Advance Feature

Allows hands free operation of programmed recipes. When auto advance feature activated, indicator automatically advances to next ingredient once tolerance, and delay time requirements met.

Tolerance

% ingredient can be under/over-loaded and still automatically advance

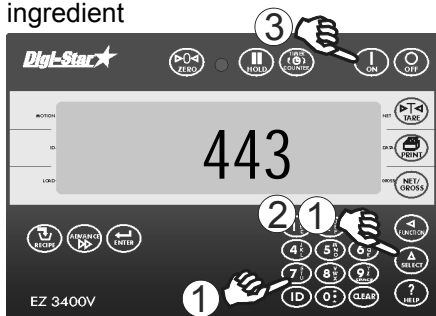


1. Enter **442** press .
2. Repeatedly press displays tolerance amount by percentage. (See note below)
3. Press stores setting.

Note: OFF setting always advances after ingredient amount reached.

Delay Time

Time indicator waits before automatically advancing to next ingredient

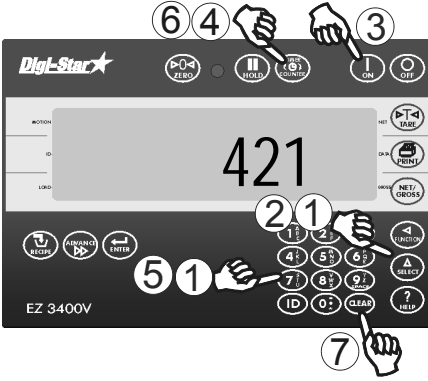


1. Enter **443** press .
2. Repeatedly press displays delay time (in seconds) before automatic advance. (See note)
3. Press stores setting.

Note: MANUAL setting prevents auto-advance.

Rotate Counter

Indicator counts mixer auger rotations.



Note: Feature requires optional sensor kit.

1. Enter **421** press .
2. Press picks REV option .
3. Press .
4. Press .
5. Enter number of rotations.
6. Press rotation counter counts down. Counter reaches zero, alarm light and buzzer on.
7. Press .

Restart Rotation Counter




1. Press twice starts rotation counter using previous count.

Drive Ratio


Drive ratio is number of turns seen by sensor divided by number of mixing rotations.



1. Enter **422** press .



2. Enter drive ratio.

3. Press .

MENUS AND ACCESS NUMBERS

Access To Menus

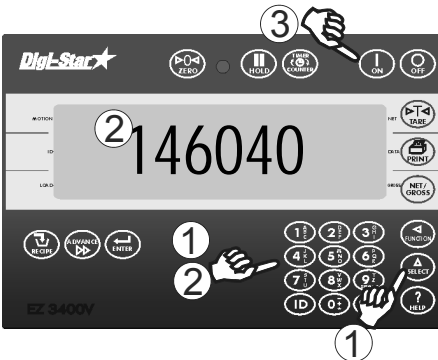


1. Press and hold **NET/GROSS** and **ON**.
2. Press **SELECT** chooses required menu.
3. Press **ON** enters selected menu.



4. Press **ON** scrolls options.
5. Press **SELECT** changes options.
6. Press **ON** saves changes.


Change Setup And Cal. Numbers




1. Enter **871** press **SELECT**.
2. Indicator shows **SETUP** briefly then show a 6 digit number. Enter new number.
3. Press **ON**.

Follow same procedure changes calibration number except use **872**.

DIRECT ACCESS NUMBERS LIST

Enter D.A.N. press  displays setting name, allows value change.

Press  saves setting

SETTING/ DISPLAY	D.A.N NO.	OPTIONS BOLD=DEFAULT	DESCRIPTION
MENU 1. BASIC FEATURES IN MOST INDICATORS			
LANGUAGE {l angag}	101	English(ENGLISH) (NEDERL) French (FRANCS) Dutch(DEUTSH) Italian (I TAL) Portuguese (PORT) Spanish (ESPAN) Danish (DANSK) (MAGYAR) (VESTA)	Select language to be displayed.
DISPLAY RATE {0 rate}	102	1,2,3,4	Update display times per second.
MOTION {motion}	103	ON/OFF	If ON -motion arrow flashes for unstable weight and will prevent Ingredient or pen advancing.
WEIGH METHOD {W mthd}	105	1=General, 2=Fast, 3=Slow, 4=Lock-On	Select weigh method
TR HOLD { tr hld}	107	ON/OFF	Display gross weight if TR key is held for 3 seconds.
SCALE ID SETUP {scal id}	108	NEW EZ	Identity of scale location (truck id or Mixer number).
1 PRESS ZERO {1 zero}	115	ON/OFF	If ON -press and hold the Zero key to Zero/Balance scale.
MENU 2. CLOCK, PRINTER, COMMUNICATIONS FEATURES			
TIME FORMAT {time f}	201	24 HR AM/PM	Select time format -AM/PM or 24 hour
1 TIME {time}	202	XX:XX:XX	Select key changes time, function key chooses hh:mm:ss.

SETTING/ DISPLAY	D.A.N NO.	OPTIONS BOLD=DEFAULT	DESCRIPTION
DATE FORMAT {date f}	203	1-mm-dd 2-mm/dd/yy 3-mm/dd/yyyy 4-dd-mm 5-dd/mm/yy 6-dd/mm/yyyy 7-ddmoyy 8-ddmoyyyy.	Select date format
DATE {date}	204	Enter XXXXXX	Select key changes date -function key chooses mm/dd/yy .
ONE LINE PRINT {1l prt}	212	ON/OFF	If ON -indicator data will be printed on one line.
PRINT FORMAT {prtfmt}	216	AUTO WTONLY DOWNLD DT+TM ID+TM IDWTTM ANIMAL 3200-A 3200-B 32-TMR DATCH1 FDINFO WTRCTM EIDINF EID EIDVID	Select alternate & comma (CSV) formats.
REMOTE remote	218		If ON indicator communicates with cab control display.
ZERO OUTPUT {zerout}	219		Perform the Zero/Balance for the SCOREM #11 weight output and the analog output (4-20mA)
SCALE NUMBER SCL NO	231		Select scale number for cab control communication
REMOTE DISPLAY RMDISP	234		Select type of remote display
ANALOG LOW WEIGHT LOW WT	241		Enter analog weight value to equal 4mA or 0 volts

SETTING/ DISPLAY	D.A.N NO.	OPTIONS BOLD=DEFAULT	DESCRIPTION
ANALOG HIGH WEIGHT HI GHWT	242		Enter analog weight value to equal 20mA or 5 volts
ANALOG SELECT ANAOUT	243		Select 0-5V,4-20mA or 0-20mA output

MENU 3. SCALE CALIBRATION SETTINGS

DISPLAY COUNT {count}	301	.01,.02,.05,.1,.2,.5,1,2,5, 10 ,20,50,100	Select display count size of weigh values.
DISPLAY UNIT {lb-kg}	303	LB /KG	Display pounds -lb or kilograms - kg
CAPACITY {cap}	304	40000	Enter MAXIMUM weight measurable on scale.

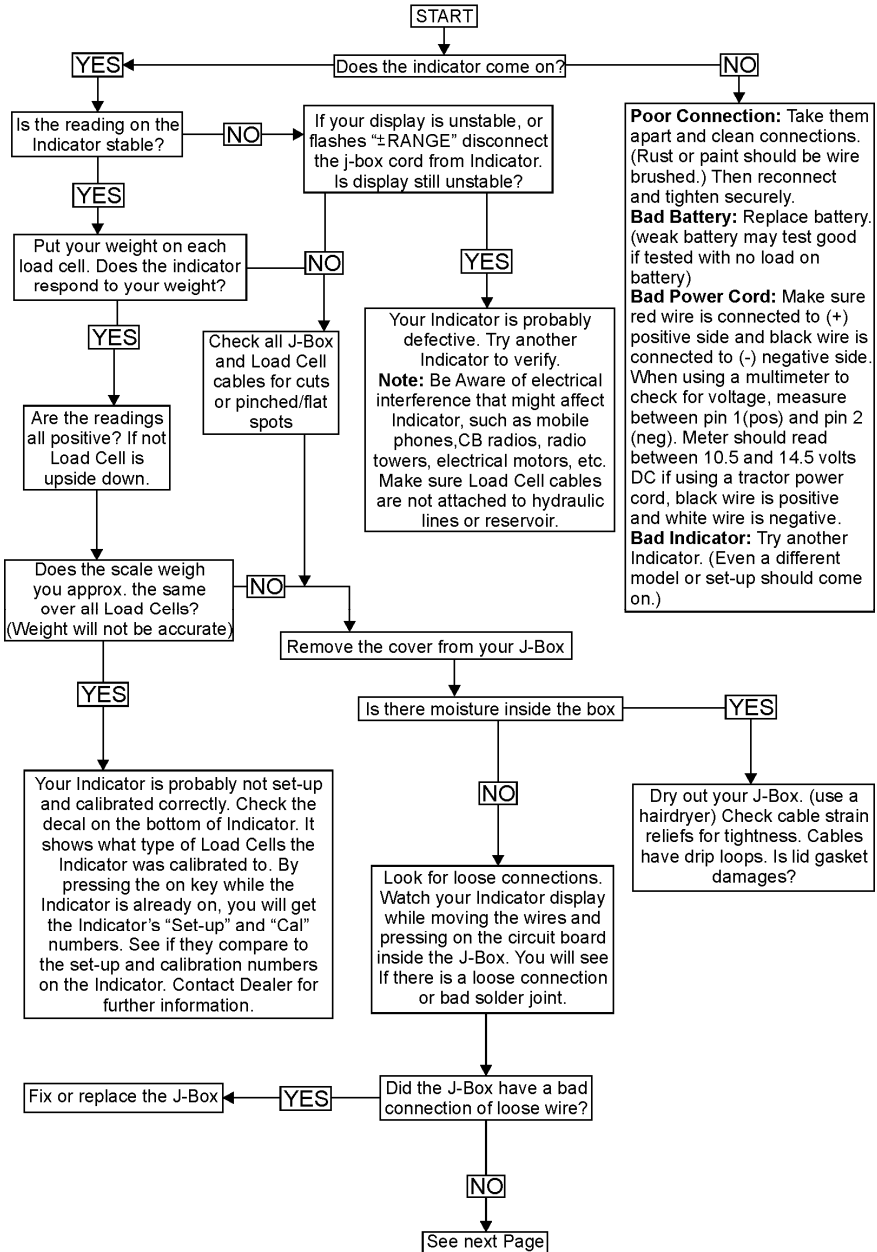
MENU 4. PRESET, BATCHING & COUNTER FEATURES

PRE ALARM {p mthd} & {p-alm} ..	401	WEIGHT PERCNT	Select weight or percentage method, then enter a value to activate an early warning that indicator is reaching the preset.
REMOTE INPUT {rm inp}	402	MIXCTR INGRED PRESET	Set function of remote input line on the power cord.
ALARM OUTPUT {al out}	403	PRESET TR	Select preset or TR to control relay, horn & lamp.
BUZZER {buzzer}	404	1-4, ON/OFF	ALARM BUZZER -allows user to turn off alarm horn.
PRELOAD TARE {pretar}	405	ON/OFF	If ON -tare weights can be entered using the numeric keypad
TIMER/ COUNTER {tmctr}	421	REV TIME	Select time or mixer revolutions to decrement mix timer/counter.
DRIVE RATIO {dratio}	422	0001.00	Enter the number of input pulses that equal 1 mixer revolution.
GROSS SET POINT {SETPNT}	423	5000	Set a gross weight in long form that will activate +12VDC Alarm Output on Power cord.
GROSS SET POINT CHNG {SETCHG}	424	500	Set required weight change to turn off +12VDC Alarm Output.
GROSS SET POINT DELAY {SETDEL}	425	0 -10	Set the time delay that must expire before the +12VDC Alarm Output can Turn On/Off.

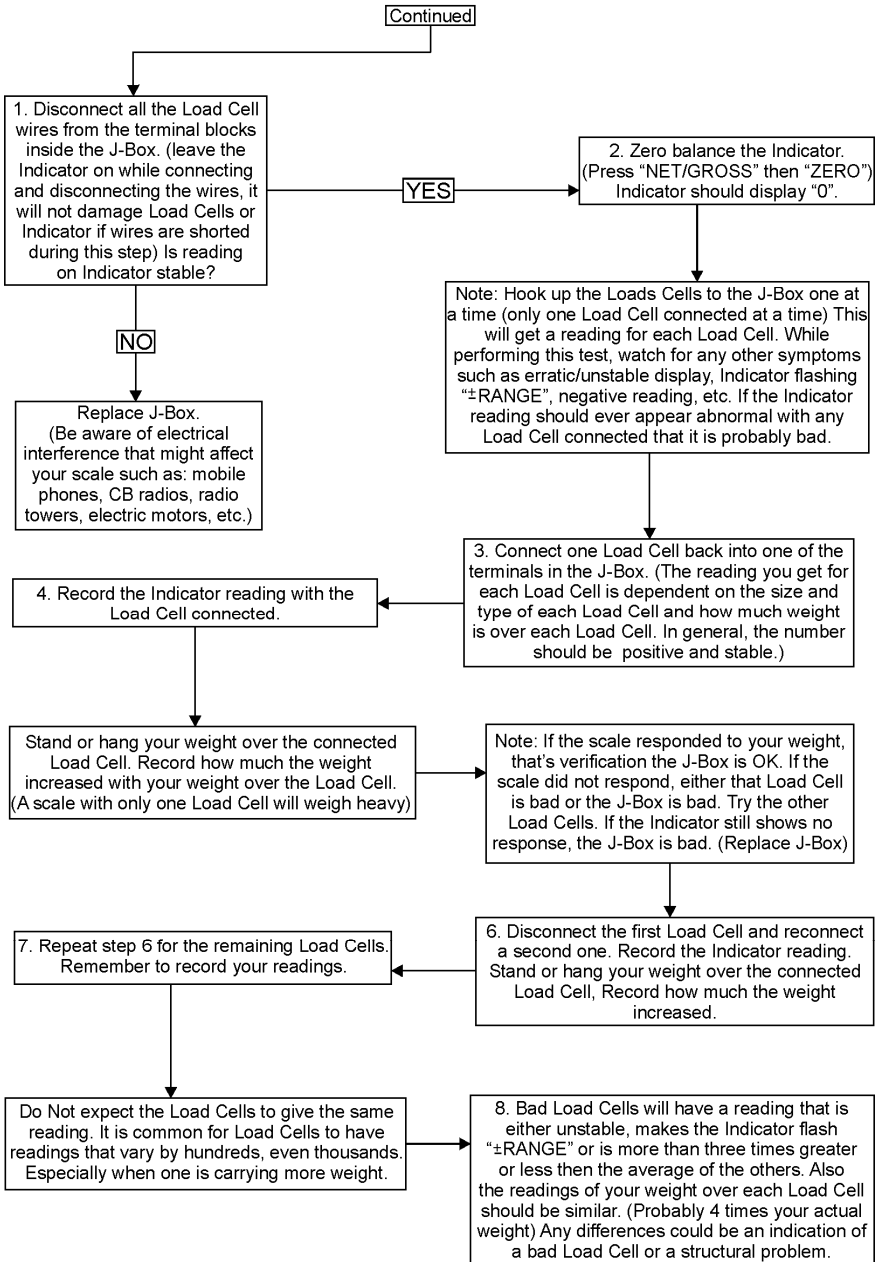
SETTING/ DISPLAY	D.A.N NO.	OPTIONS BOLD=DEFAULT	DESCRIPTION
GROSS SET PNT OUTPUT {SETOUT}	426	OVER/UNDER	Select when the +12VDC Alarm Output becomes active.
SET POINT COUNT SET CTR	427	0-9	Counts activation of Code 423
ENTRY METHOD E MTHD	441	1,2,3	Select batch 1-amount/animal 2-percent/load 3- amount/load
TOLERANCE {toler}	442	OFF, .5,1-5,7,10	Select tolerance weight percentage to accept ingredient.
INGR. ADVANCE DELAY {delay}	443	MANUAL, 1-3,5,7,10,20,30,60	Select seconds to delay before advancing to next ingredient.
INGREDIENT NAMES INGRNM	444	ON/OFF	If ON displays ingredient names while batching
ACCUMULATION ACCUM	445	ON/OFF	If ON ingredient weights are accumulated while batching
INGREDIENT RE- SIZING INGSIZ	449	1-ING/OFF	Selects automatic ingredient re-size mode
PISPLAY SCOOP % SCOOP%	452	ON/OFF	If ON displays scoop % to load
DOUBLE KEY PRESS PREV {dbkey}.	465	ON/OFF	Select method ignores double pressing of keys when advancing ingr. While loading mixer.
CALIBRATION			
DEAD WEIGHT CAL {CAL}	802		Calibration method using weights
SETUP NUMBER SETUP	871		Quick entry method selects weigh method 1-4lbs, 5-8 kg, gain 1-9, display counts 1-9 and capacity *1000
CALIBRATION NUMBER CAL	872		Weight displayed at 0.4mV/V for these load cells

TROUBLESHOOTING

FLOW CHART



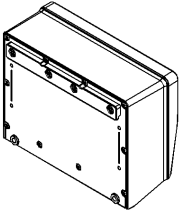
FLOW CHART



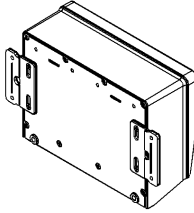
INSTALLATION

Indicator Mounting

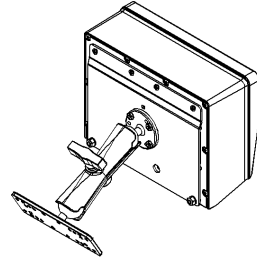
Rail Mounting
Included



Wing Mount
Included



RAM Mount
Optional



Indicator Mounting

Rail Mount (Standard) and Wing Mount w/ hardware included.
RAM Mount Optional Kit, hardware included w/ kit.

Load Cell Direction



Observe direction of arrow when installing load cell.

Cable Connection

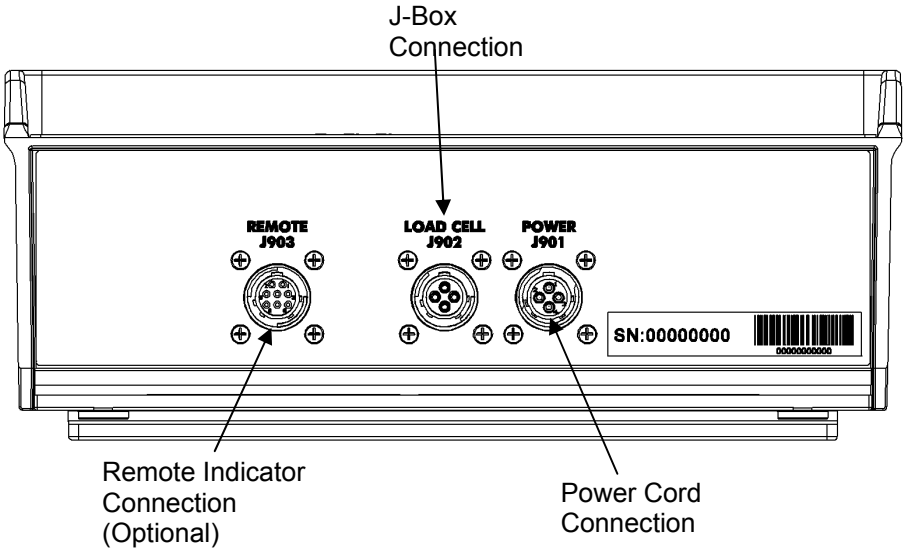
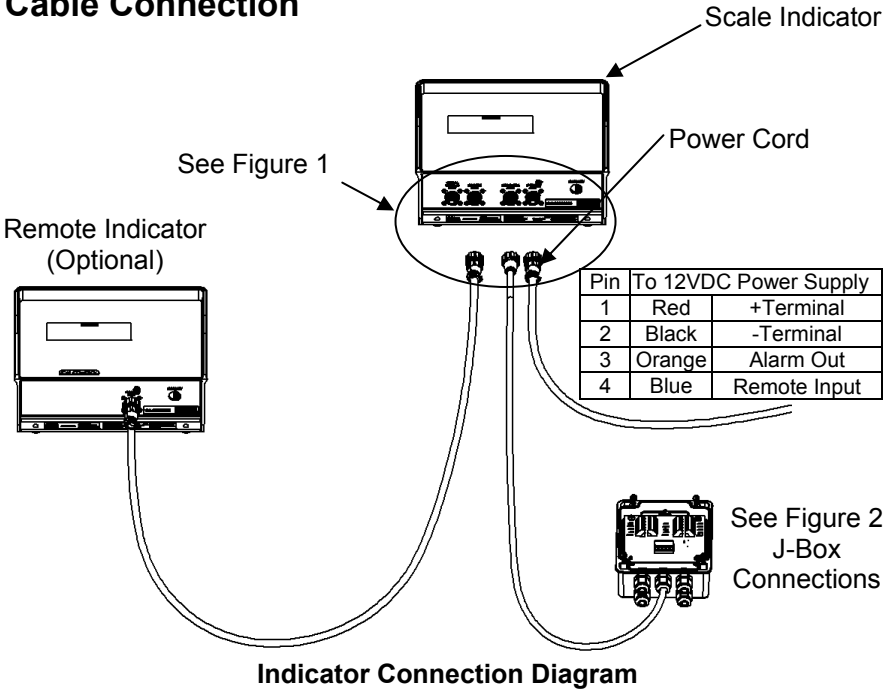
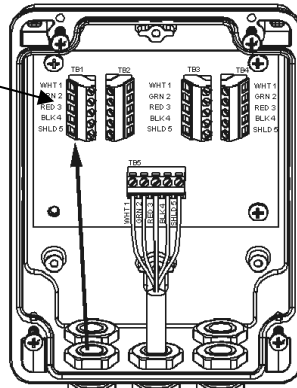


Figure 1 Bottom Panel Cable Connections

Connect Load Cells to J-Box

Connect load cell wires to terminal blocks.

Wire Color Key		
	Color	Description
1	White	Signal +
2	Green	Signal -
3	Red	Excitation +
4	Black	Excitation -
5	Shield	Shield



J-Box Illustrated for 4 Load Cell Installation

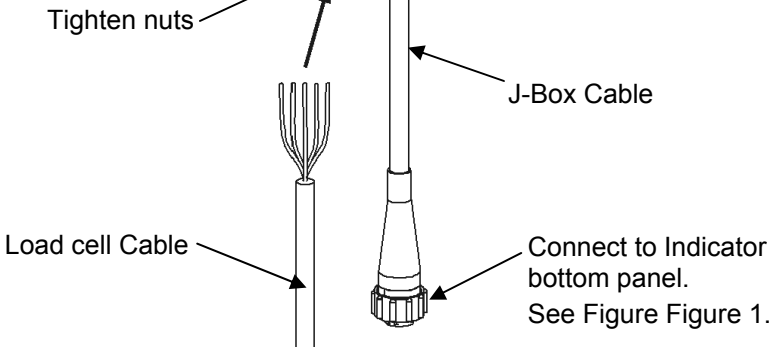
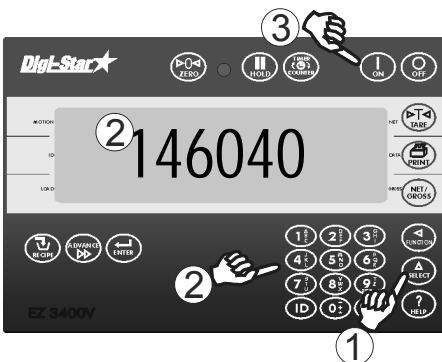


Figure 2 J-Box Connections

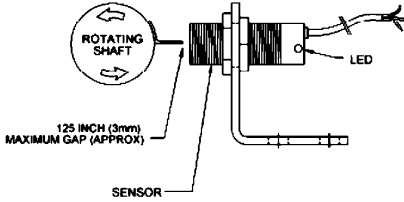
Change Setup And Cal. Numbers



1. Enter **871** press
 2. Indicator shows **SETUP** briefly then show a 6 digit number. Enter new number.
 3. Press
- Follow same procedure changes calibration number except use **872**

OPTIONAL EQUIPMENT

Rotation Counter Sensor



Use with EZ3600 or EZ4600 indicators equipped with rotation counter port. Sensor allows operator to program indicator to count auger or PTO rotations for accurate mix.

Transmitter/Receiver



Transmitter (shown) with factor installed receiver in indicator. Use to zero indicator from remote location. Operating range about 90 feet.

Remote Indicators



RD440 small remote display with 1" high numbers

RD2400V backlit remote display with 1.7" high numbers

RD2400V backlit remote display w/transmitter and installed receiver

RD2400 backlit remote display with 1" high numbers

RD2400 backlit remote display w/transmitter and installed receiver

RD4000 remote display