



# **HYDRAFEEDER™**

BY **HYDRABED**

HYDRAFEEDER  
by HYDRABED  
SABETHA, KS  
800-630-5624  
hydrabeds.com



HYDRAFEEDER



**OWNER'S MANUAL**



## THANK YOU

Thank you for choosing HydraFeeder™. It is a sincere privilege to serve North America's farmers and ranchers and an opportunity we take seriously. Our goal is to provide the most rugged and reliable equipment while continuing to build on a legacy of innovative products that solve real ranch problems. We are proud to play an important role not only in the agriculture industry but in the daily lives of the hard working men and women that feed the world.





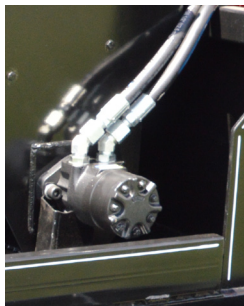


# TABLE OF CONTENTS

QUICK SPECS	4
SAFETY GUIDELINES	8
HYDRAFEEDER INSTALLATION INSTRUCTIONS	9
ELECTRIC FEEDER WIRING DIAGRAM	10
HYDRAFEEDER DIGITAL COUNTER INSTALLATION INSTRUCTIONS	11-12
DIGITAL COUNTER WIRING INSTRUCTIONS	
HYDRAULIC	13
ELECTRIC	14
PROGRAMMING YOUR DIGITAL COUNTER	
HYDRAULIC	15
ELECTRIC	16
COUNTER CONFIGURATION	
HYDRAULIC	17-18
ELECTRIC	19-20
HYDRAFEEDER INITIAL STARTUP PROCEDURES	21
HYDRAFEEDER OPERATING PROCEDURES	22
TROUBLESHOOTING	
HYDRAULIC	23
ELECTRIC	24

# QUICK SPECS

## HYDRAULIC DRIVE OPTION



The Hydra Feeder™ hydraulic drive motor powers the auger at 85 RPM when supplied with 4 GPM of hydraulic flow. Higher flows will produce proportionally higher auger RPMs. Back-lit programmable display counter is standard equipment (mounts in-cab).

## ELECTRIC DRIVE OPTION



The Hydra Feeder™ electric drive motor powers the auger at 85 RPM. An external switch located at the discharge tube provides easy bucket filling. Back-lit programmable display counter is standard equipment (mounts in-cab).

	HF 1200	HF 1800
Approx. Capacity	19.5 bu / 25 cu. ft.	28.5 bu / 38 cu. ft.
Dimensions	40" H x 66" W	40" H x 66" W
Front to Back	20"	31"
Empty Weight	403 lbs.	476 lbs.
Lid Design	Ground Operated, Full Opening Hinge-Over Lid, Stainless Steel Hinges	
Lid Material	10 gauge aluminum	
Drive	Direct Mount Hydraulic or Electric Motor	
Delivery	8" Auger (variable speed & reversible with hydraulic motor)	
Metering	Back-lit, In-cab, Programmable Digital Counter	
Construction	12-Gauge Steel	



— ★ —  
*PROUDLY*  
**MADE IN THE**  
**USA**

===== *by* =====  
**SKILLED CRAFTSMEN**  
— ★ —





HF1200

HYDRAFEEDER  
by HYDRABED  
SABETHA, KS  
800-331-5634  
hydrabeds.com



HYDRAFEEDER



HB 3200





**2** YEAR ★ SYSTEM  
**WARRANTY**

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**5** YEAR   
**STRUCTURAL  
WARRANTY**

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## SAFETY GUIDELINES

As with any device designed to transfer feed, some cautions are in order. Keep this manual available at all times and refer to it regularly.

**NEVER** allow yourself or anyone else inside the **HYDRAFEEDER™** or near the discharge tube outlet while it is in operation or with the vehicle running.

**NEVER** operate the hydraulic pump power source at flows in excess of 15 GPM or serious hydraulic motor damage may result that will not be covered by warranty.

**NEVER** allow children or other unauthorized personnel access to the controls for your **HYDRAFEEDER™**.

**NEVER** load/unload **HYDRAFEEDER™** while filled with feed unless proper precautions have been taken. Consult factory for proper instructions.

**ALWAYS** use sound judgment and common sense when operating your **HYDRAFEEDER™**.

# HYDRAFEEDER™ INSTALLATION INSTRUCTIONS

- 1** Using the arm pins provided with the **HYDRAFEEDER™**, lift the unit onto the **HYDRABED®**. Slide the **HYDRAFEEDER™** forward against the headache rack and center it.
- 2** [OPTIONAL] Mark and drill two 7/16" holes into the bed floor through the slots located in the **HYDRAFEEDER™** feet.
- 3** [OPTIONAL] Attach **HYDRAFEEDER™** feet to bed floor using 3/8 bolts, washers and nuts.
- 4** With the two 5/16" U-bolts provided, fasten the **HYDRAFEEDER™** tabs to the headache rack.
- 5a** Hydraulic: Attach the hydraulic hoses to the hydraulic motor fittings on the **HYDRAFEEDER™**. Route and secure the hoses over the filler plate in the headache rack and under the bed to the auxiliary rear quick couplers.
- 5b** Electric: Route the battery and digital counter cabling through the **HYDRABED®** knockout (optional) along the vehicle frame. The counter cabling will route into the cab and the battery cabling will maintain it's route along the frame to the vehicle battery. Make the counter wiring connections per drawing 30-1807 (pg 14). Connect the 300 amp fuse to the positive post of the battery and connect the red battery cable to the fuse. Connect the black battery cable to a suitable ground. Refer to drawing 30-1805 (pg 10) for the secondary switch installation.





# HYDRAFEEDER™ DIGITAL COUNTER INSTALLATION INSTRUCTIONS

## HYDRAULIC MOTOR MOUNTED SENSOR AND PROGRAMMABLE DISPLAY

---

- 1** Using the 3-foot piece of 18/3-jacketed wire, attach the black lead to no. 1 terminal, the white lead to no. 2 terminal and the green lead to no. 8 terminal on back of display.
- 2** Locate your preferred location in the cab for the digital counter (typically on the dash to the left of the steering column) and route the wire to a location under the dash near the **HYDRABED®** dash bracket.
- 3** Connect the 20' Sensor Harness (HF12-46) to the sensor on the **HYDRAFEEDER™** motor, routing it along the truck chassis and into the cab in a protected and secure manner to a location under the dash near the **HYDRABED®** dash bracket.
- 4** Make all other wire connections per drawing 30-1800 (pg 13). Make certain to attach power lead to the switched side of the hydraulic pump switch using the quick splice provided. This connection method will only supply power to display and sensor when hydraulic pump is on.

# HYDRAFEEDER™ DIGITAL COUNTER INSTALLATION INSTRUCTIONS continued

## ELECTRIC MOTOR MOUNTED SENSOR AND PROGRAMMABLE DISPLAY

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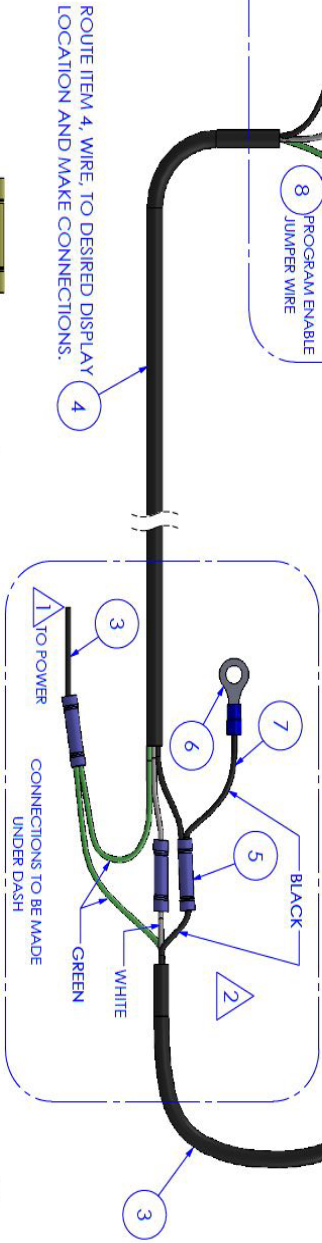
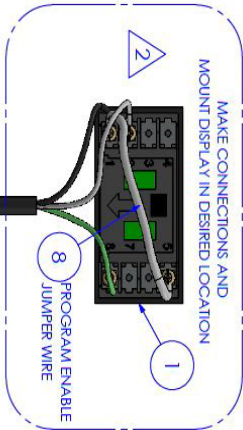
- 1** Using the 3-foot piece of 18/3-jacketed wire, attach the black lead to no. 1 terminal, the white lead to no. 3 terminal and the green lead to no. 8 terminal on back of display.
- 2** Locate your preferred location in the cab for the digital counter (typically on the dash to the left of the steering column) and route the wire to a location under the dash near the **HYDRABED®** dash bracket.
- 3** Connect the 17' Sensor Harness to the sensor on the **HYDRAFEEDER™** motor, routing it along the truck chassis and into the cab in a protected and secure manner to a location under the dash near the **HYDRABED®** dash bracket.
- 4** Make all other wire connections per drawing 30-1807 (pg 14). Make certain to attach power lead to the switched side of the electric pump switch using the quick splice provided. This connection method will only supply power to display and sensor when electric pump is on.

NOTES:

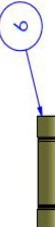
1. USE ITEM 8, QUICK SPLICE, TO CONNECT TO HYDRAULIC PUMP POWER WIRE ON A HYDRA-BED SYSTEM.
- CONNECT TO SWITCHED AND FUSED POWER LEAD FOR OTHER APPLICATIONS.
2. STRIP JACKET FROM WIRES AND MAKE CONNECTIONS AS SHOWN.
3. PROVIDED WIRES MAY BE CUT TO LENGTH TO MAKE CONNECTIONS.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	A103-001	DIGITAL DISPLAY	1
2	VELCRO	VELCRO FASTENER	1-1/2 IN
3	HF12-46	SENSOR HARNESS, 20 FT	1
4	W18/3-SVO	18/3 JACKETED WIRE	3 FT
5	BC422005	BLUE BUTT CONNECTOR	3
6	RT152565	RING TERMINAL, 5/16	1
7	W3/1-40	14 GA WIRE, BLACK	2 FT
8	EL-QS905595	BLUE QUICK SPLICE	1
9	BC423005	YELLOW BUTT CONNECTOR	1
10	HF12-64	BRAKEL, DISPLAY	1

REFERENCE	
TERMINAL	WIRE COLOR
A	GREEN
B	WHITE
C	BLACK



MAY NEED TO BE USED TO TAP INTO EXISTING POWER WIRE.



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UNLESS OTHERWISE SPECIFIED: DRAWN: ETHAN 10/26/2016	
DIMENSIONS ARE IN INCHES	
TOLERANCES:	
FRACTIONAL: ± 1/16	
ANGULAR: MACH ± 1 BEND ±	
TWO PLACE DECIMAL ± 0.10	
THREE PLACE DECIMAL ± 0.05	
MATERIAL:	
DO NOT SCALE DRAWING	
PART #	Part #
ASM #	Asm #
COMMENTS:	
HYDRA-FEEDER SENSOR COUNTER	

SIZE: DWG. NO. 30-1800 B	
SCALE: 1:8	
WEIGHT:	
SHEET 1 OF 1	

**TRIPLE C**  
INC.

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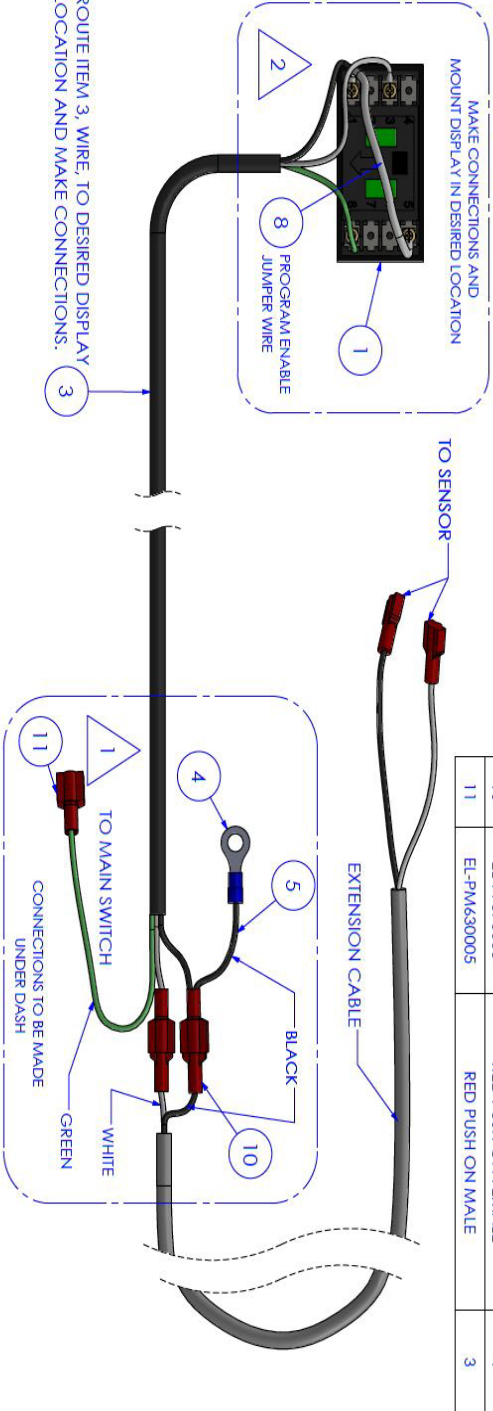
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NOTES:

1. CONNECT TO MAIN SWITCH GREEN WIRE
2. STRIP JACKET FROM WIRES AND MAKE CONNECTIONS AS SHOWN.
3. PROVIDED WIRES MAY BE CUT TO LENGTH TO MAKE CONNECTIONS.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	A103-001	DIGITAL DISPLAY	1
2	VELCRO	VELCRO FASTENER	1-1/2 IN
3	W18/3-SVO	18/3 JACKETED WIRE	3 FT
4	RT152565	RING TERMINAL, 5/16	1
5	W37140	14 GA WIRE, BLACK	2 FT
6	BC-423005	YELLOW BUTT CONNECTOR	1
7	EL-QS90595	BLUE QUICK SPLICE	1
8	W29165	16 GA WIRE, WHITE	2-3/4 IN
9	HF12-64	BRACKET, DISPLAY	1
10	EL-PF690005	RED PUSH ON FEMALE	4
11	EL-PM630005	RED PUSH ON MALE	3

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UNLESS OTHERWISE SPECIFIED: DRAWN DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR $MACH \pm 1$ BEND $\pm$ TWO PLACE DECIMAL $\pm .010$ THREE PLACE DECIMAL $\pm .005$ MATERIAL	PART # Asm #	ETHAN Part # Asm #	9/26/2018
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SIZE A	DWG. NO. 30-1807 A	REV A
SCALE: 1:8 WEIGHT: SHEET 1 OF 1		

**TRIPLE C**  
INC.  
P.O. BOX 248, SABLETHA, KS 66534  
(785) 284-3674 FAX (785) 284-3931

# HYDRAFEEDER™ PROGRAMMING YOUR DIGITAL COUNTER

## PROGRAMMABLE DISPLAY - HYDRAULIC ONLY

---

The digital counter is factory configured to count one digit per auger revolution. The factory preset for menu 1 is 00.0667. If you desire your counter to display “pounds of feed”, follow these instructions to calculate your programming factor.

***To determine the programming factor:***

- 1** Obtain a container to run feed into. Weigh that container empty.  
*Example: Empty container weighs 4 pounds.*
- 2** With the readout displaying zeros, run some feed into the container. The larger the sample size, the greater your accuracy.
- 3** Record the number on the digital display.  
*Example: Number on display is 7*
- 4** Weigh the full container and subtract the weight of the container.  
*Example:  $67 - 4 = 63$  pounds of feed*
- 5** Divide the number of pounds by the number on the display. This will be the number of pounds per revolution.  
*Example:  $63 / 7 = 9$*
- 6** Divide the number of pounds per revolution by 15. This will be the factor you will program into the digital display.  
*Example:  $9 / 15 = .6000$*
- 7** This is the programming factor for that particular feed. Replace the number calculated in step 6 (Example 0.6000) in the first counter parameter. See page 17 for instructions to enter the factor into the counter. Record this factor and feed type for future reference.



***For accurate feeding, this must be done for each different type of feed.***

# HYDRAFEEDER™ PROGRAMMING YOUR DIGITAL COUNTER continued

## PROGRAMMABLE DISPLAY - ELECTRIC ONLY

---

The digital counter is factory configured to count one digit per auger revolution. The factory preset for menu 1 is 01.0000. If you desire your counter to display “pounds of feed”, follow these instructions to calculate your programming factor.

### ***To determine the programming factor:***

- 1** Obtain a container to run feed into. Weigh that container empty.  
*Example: Empty container weighs 4 pounds.*
- 2** With the readout displaying zeros, run some feed into the container. The larger the sample size, the greater your accuracy.
- 3** Record the number on the digital display.  
*Example: Number on display is 7*
- 4** Weigh the full container and subtract the weight of the container.  
*Example:  $67 - 4 = 63$  pounds of feed*
- 5** Divide the number of pounds by the number on the display. This will be the number of pounds per revolution.  
*Example:  $63 / 7 = 9$*
- 6** This is the programming factor for that particular feed. Replace the number calculated in step 5 (Example: 9) in the first counter parameter. See page 19 for instructions to enter the factor into the counter. Record this factor and feed type for future reference.



***For accurate feeding, this must be done for each different type of feed.***



# COUNTER CONFIGURATION - HYDRAULIC

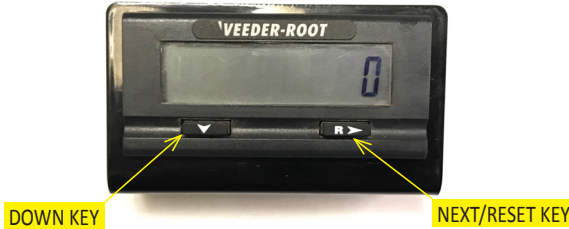
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## *Entering the factor into the digital display:*

Refer to the Technical Manual shipped with the digital display.

There are four (4) parameters that make up the programmable display. The leftmost digit designates each parameter. Once in the programming mode, you must scroll through each parameter to return to normal operation.

The display is configured from the factory to enter the programming mode simply by pressing the Down (left) Key.



Programming parameters can be accessed by pressing the Down Key. To edit a parameter use the Down key to scroll until the desired parameter appears on the screen. Pressing the Next key will cause the leftmost digit of that value to begin to flash. Use the Next and Down keys in combination to choose individual digits and change their value.



**1** The first menu is the count-input calibrator.

Using the next/reset key, input your factor number that you calculated in step 6 on page 15. Press the next/reset once more after you have entered the last digit of your factor, then press the down key to advance to next parameter. **Factory preset is 00.0667.**



**2** The second menu is the "Display Decimal Point". This should be set to "off". Press the down key to advance to next parameter.



**3** The third menu is the “Count Offset”. This should be set to “000000”. All zeros. Press the down key to advance to next parameter.



**4** The fourth menu is the “Front Panel Reset Enable”. This should be set to “on”. Press the down key once more.

**5** Your digital display is now configured to display the number of pounds for that particular feed.

# COUNTER CONFIGURATION - ELECTRIC

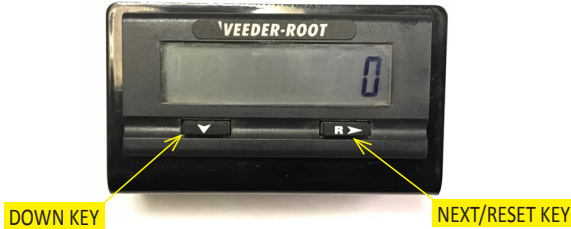
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## *Entering the factor into the digital display:*

Refer to the Technical Manual shipped with the digital display.

There are four (4) parameters that make up the programmable display. The leftmost digit designates each parameter. Once in the programming mode, you must scroll through each parameter to return to normal operation.

The display is configured from the factory to enter the programming mode simply by pressing the Down (left) Key.



Programming parameters can be accessed by pressing the Down Key. To edit a parameter use the Down key to scroll until the desired parameter appears on the screen. Pressing the Next key will cause the leftmost digit of that value to begin to flash. Use the Next and Down keys in combination to choose individual digits and change their value.



**1** The first menu is the count-input calibrator.

Using the next/reset key, input your factor number that you calculated in step 6 on page 16. Press the next/reset once more after you have entered the last digit of your factor, then press the down key to advance to next parameter. **Factory preset is 01.0000.**



**2** The second menu is the “Display Decimal Point”. This should be set to “off”. Press the down key to advance to next parameter.



**3** The third menu is the “Count Offset”. This should be set to “000000”. All zeros. Press the down key to advance to next parameter.



**4** The fourth menu is the “Front Panel Reset Enable”. This should be set to “on”. Press the down key once more.

**5** Your digital display is now configured to display the number of pounds for that particular feed.

# HYDRAFEEDER™ INITIAL STARTUP PROCEDURES

## Hydraulic

- 1** Engage pump switch and activate the appropriate hydraulic control.
- 2** After the air is purged from the hoses and motor, the auger will begin to rotate.
- 3** Check digital read-out for activity. If no rotations are indicated, turn off vehicle engine and check all wire connections.
- 4** If all functions are functioning properly, partially fill feeder with feed.
- 5** Reset read-out to zero by pressing the right button once.

## Electric

- 1** There are two switches that can operate the electric motor, the main switch in the cab and the momentary switch located at the discharge end of the feeder. The main switch has three positions, OFF, ON and MOMENTARY. The ON position illuminates the back light on the digital counter and provides operation to the switch on the feeder. The switch must be in this position to use the momentary switch on the feeder. The MOMENTARY position operates the electric feeder motor.
- 2** Engage the switch(es) to the MOMENTARY position and the auger will begin to rotate.
- 3** Check digital read-out for activity. If no rotations are indicated, turn off switch and check all wire connections.
- 4** If all functions are functioning properly, partially fill feeder with feed.
- 5** Reset read-out to zero by pressing the right button once.



# HYDRAFEEDER™ OPERATING PROCEDURES

- 1 Inspect for and remove any foreign objects from feeder interior.
- 2 Fill feeder to the desired level with any non-corrosive free flowing feed or grain product.
- 3 Activate hydraulic controls or switch to rotate auger in the discharge direction.
- 4 To retract feed remaining in discharge tube, reverse hydraulic control for 3 to 5 auger revolutions (**HYDRAULIC ONLY**).



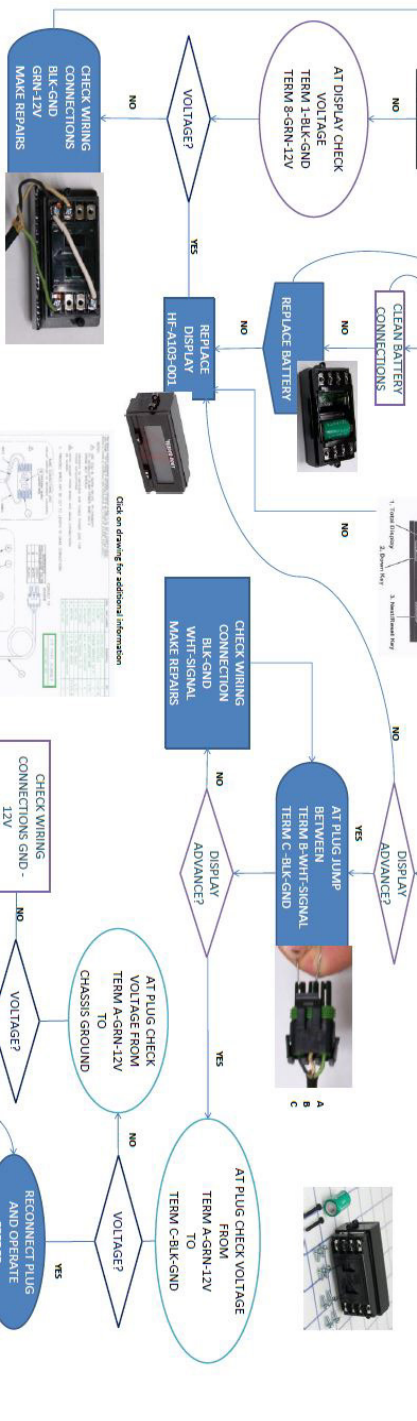
***Excessive reversing is unnecessary and may reduce the life of some components.***

- 5 Repeat the above steps as often as necessary for your feeding routine.
- 6 Do not leave feed in the unit for extended periods of time, as moisture may accumulate in the feed, causing corrosion and/or other damage.
- 7 Should stalling of the auger occur, momentarily reversing the auger (**HYDRAULIC ONLY**) may assist in freeing the problem.
- 8 If it is necessary to load/unload **HYDRAFEEDER™** onto the **HYDRABED®** while loaded, consult with factory.

# HYDRAFEEDER

September 19, 2018

10-28



4. RESET THE NUMBER ONE (1) MENU TO 00 0667 OR TO THE PREVIOUSLY RECORDED NUMBER (CUSTOM SETTING).
5. MOVE WHITE WIRE FROM NUMBER THREE (3) TERMINAL TO NUMBER TWO (2) TERMINAL.



# TROUBLESHOOTING

## electric

### ELECTRIC FEEDER DISPLAY/SENSOR TROUBLESHOOTING FLOWCHART

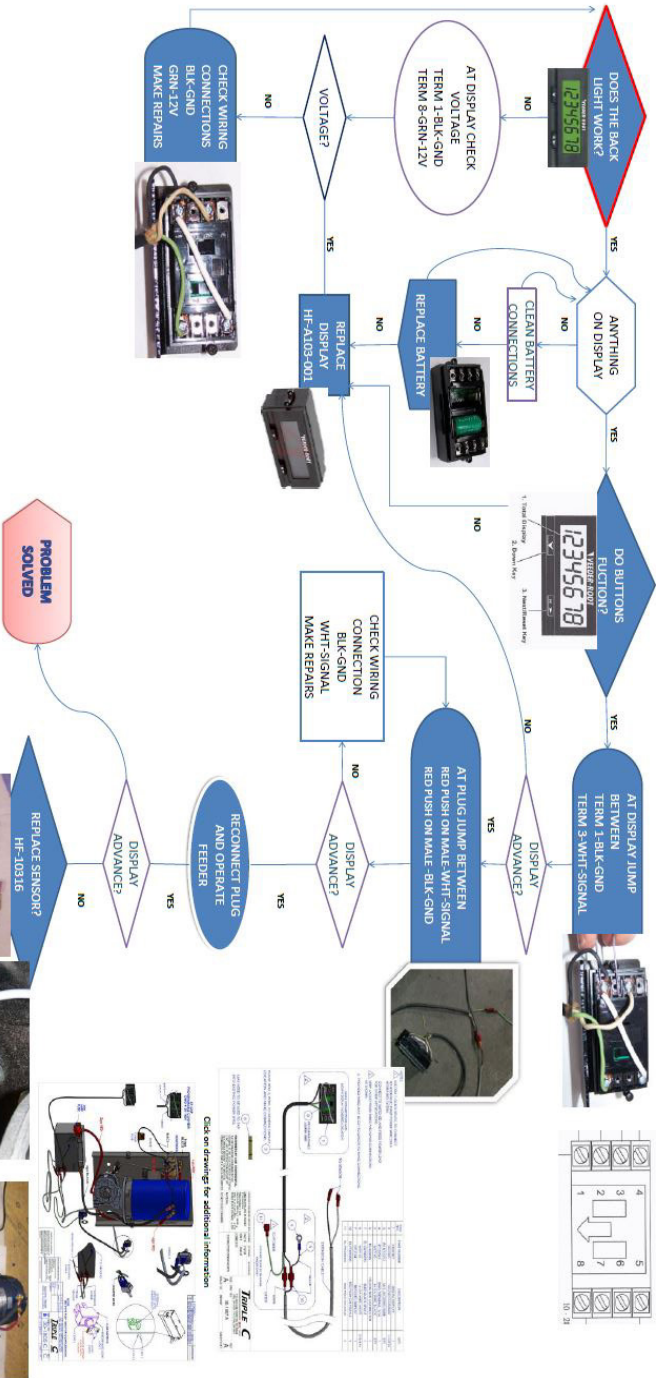
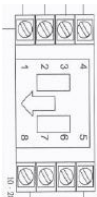
#### DO THE FOLLOWING FIRST

- 1 CHECK AND CORRECT ALL 4 MENU SETTINGS AS NEEDED. THIS WILL VERIFY THAT THE DISPLAY BATTERY IS GOOD AND THE BUTTONS WORK PROPERLY.
- 2 REFER TO OWNERS MANUAL. THIS COULD SOLVE THE PROBLEM
- 3 MOVE TO THE NUMBER ONE (1) MENU AND RECORD CURRENT SETTING (CUSTOM SETTING).  
TO AD IN TROUBLESHOOTING, TEMPORARILY REPROGRAM THE NUMBER ONE (1) MENU TO 01.0000

Drawing: 30-0024

September 19, 2018

**HYDRAFEEDER**  
by **HydraBird**



#### GENERAL NOTES

- 1 REFER TO HYDRA FEEDER OWNERS MANUAL FOR DISPLAY FUNCTIONS AND PROGRAMMING INSTRUCTIONS
- 2 REFER TO OWNERS MANUAL FOR WIRING DIAGRAM 30-1001 & 30-1005.
- 3 CHECK FOR VOLTAGE USING COMMON 12V TEST LIGHT.

