HYDRAFEEDER
BY HYDRABED

THANK YOU

Thank you for choosing Hydra Bed®. 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.
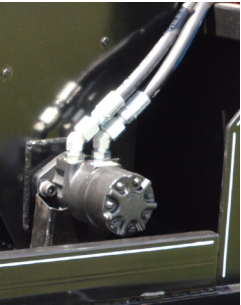
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QUICK SPECS

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

2 **YEAR** ★ SYSTEM
WARRANTY

5 **YEAR**
STRUCTURAL
WARRANTY

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 ***H**YDRA**F**EEDER*™ 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 ***H**YDRA**F**EEDER*™.

NEVER load/unload ***H**YDRA**F**EEDER*™ 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 ***H**YDRA**F**EEDER*™.

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.

EF-CKP
PROGRAMMABLE COUNTER
DWG # 30-1801

WHITE
BLACK
1
3
GREEN
8

300
AMP
FUSE

2ga RED

16ga
BLACK

2ga BLACK

10 AMP
FUSE
2ga RED
BLACK
WHITE
2ga RED
SOLENOID

FROM DISPLAY
TO GROUND
EXTENSION
CABLE
FROM
SENSOR
EXTENSION
CABLE

DETAIL B

JUMPER WIRE

EXTERNAL
SWITCH WITH
RUBBER BOOT

CAB SWITCH
LOCATE
SWITCH PLATE
WITH NOTCH
(OFF)
LIGHT
(ON)
FEEDER
AND LIGHT
(ON)
(ON)
(OFF)

REVISION
REV	DESCRIPTION	DATE	APPROVED
B	UPDATED MOTOR VIEW	10/31/2012	
C	UPDATED WIRING VIEW	10/27/2016	
D	UPDATED MOTOR & PLATE	10/23/2018	

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PROHIBITED.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL± 1/16
ANGULAR: MACH± 1   BEND ±
TWO PLACE DECIMAL   ±010
THREE PLACE DECIMAL ±005

DO NOT SCALE DRAWING

DRAWN
NAME ETHAN
DATE 10/23/2018
PART #
ASM #
COMMENTS:

NOTE:
SEE DWG # 30-1803 FOR COMPLETE BOM.

ELECTRIC FEEDER
WIRING DIAGRAM

TRIPLE C INC.

P.O. BOX 248, SABETHA, KS. 66534
(785) 284-3674 FAX (785) 284-3931

SIZE B
DWG. NO. 30-1805 D
REV D
SCALE: 1:2.5   WEIGHT: SHEET 1 OF 1

10

HYDRAULIC 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. 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.

ELECTRIC 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. 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 *H*YDRA*B*ED® dash bracket.

3   Connect the 17' Sensor Harness to the sensor on the *H*YDRA*F*EEDER™ 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 *H*YDRA*B*ED® 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.

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

ROUTE ITEM 4, WIRE, TO DESIRED DISPLAY LOCATION AND MAKE CONNECTIONS.

MAKE CONNECTIONS AND MOUNT DISPLAY IN DESIRED LOCATION

PROGRAM ENABLE JUMPER WIRE

⚠️ 1 TO POWER

CONNECTIONS TO BE MADE UNDER DASH

BLACK

GREEN

WHITE

REFERENCE	
TERMINAL	WIRE COLOR
A	GREEN
B	WHITE
C	BLACK

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	A103-001	DIGITAL DISPLAY	1
2	VELCRO	VELCRO FASTENER	1-1/2 IN
3	HFI12-46	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	W37140	14 GA WIRE, BLACK	2 FT
8	EL-QS905595	BLUE QUICK SPLICE	1
9	BC423005	YELLOW BUTT CONNECTOR	1
10	HFI12-64	BRACKET, DISPLAY	1

A		
B		
C		

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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1/16
ANGULAR: MACH ± 1 BEND ±
TWO PLACE DECIMAL   ± .010
THREE PLACE DECIMAL ± .005

DO NOT SCALE DRAWING

MATERIAL

COMMENTS:

DRAWN	ETHAN	10/26/2016
PART #	Part #	
ASM #	Asm #	

HYDRA-FEEDER SENSOR COUNTER

TRIPLE C INC

P.O. BOX 248, SABETHA, KS 66634
(785) 284-3674 FAX (785) 284-3931

| SIZE	DWG. NO.	REV
A	30-1800 B	A

SCALE: 1:8   WEIGHT: SHEET 1 OF 1

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.

ROUTE ITEM 3, WIRE, TO DESIRED DISPLAY LOCATION AND MAKE CONNECTIONS.

MAKE CONNECTIONS AND MOUNT DISPLAY IN DESIRED LOCATION

PROGRAM ENABLE JUMPER WIRE

TO SENSOR

EXTENSION CABLE

BLACK

TO MAIN SWITCH

CONNECTIONS TO BE MADE UNDER DASH

GREEN

WHITE

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	BC423005	YELLOW BUTT CONNECTOR	1
7	EL-QS905595	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
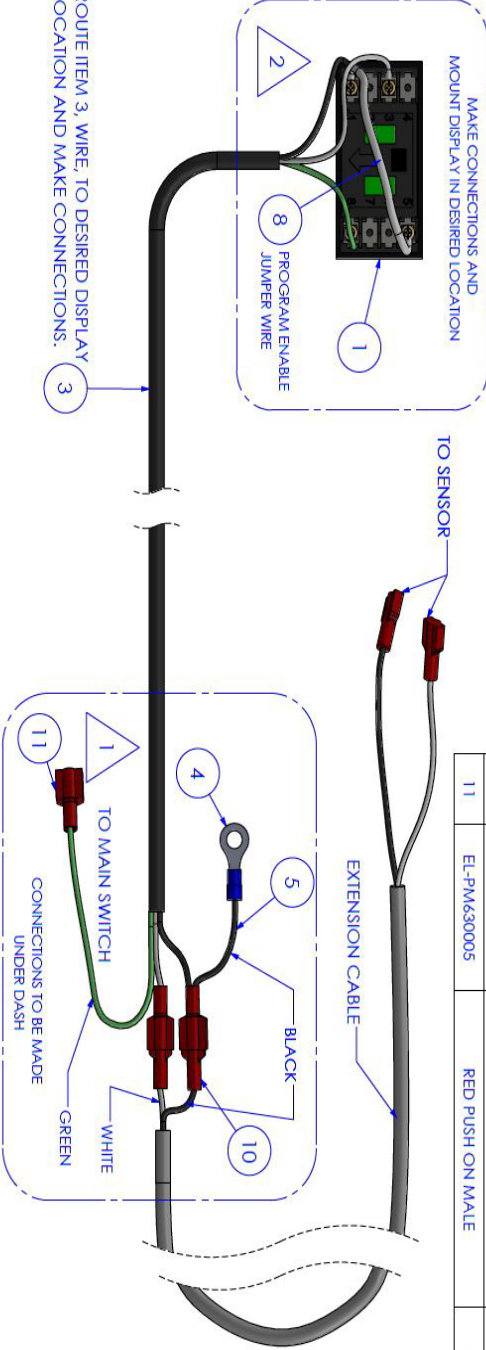
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1/16
ANGULAR: MACH ± 1 BEND ±
TWO PLACE DECIMAL ± .010
THREE PLACE DECIMAL ± .005

DO NOT SCALE DRAWING

MATERIAL

DRAWN | ETHAN | 9/26/2018
PART # | Part #
ASM # | Asm #
COMMENTS:

ELECTRIC-FEEDER SENSOR COUNTER

TRIPLE C INC.

P.O. BOX 248, SABETHA, KS 66534
(785) 284-3674 FAX (785) 284-3331

SIZE A   DWG. NO. 30-1807 A   REV A

SCALE: 1:8   WEIGHT: SHEET 1 OF 1

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.*

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.

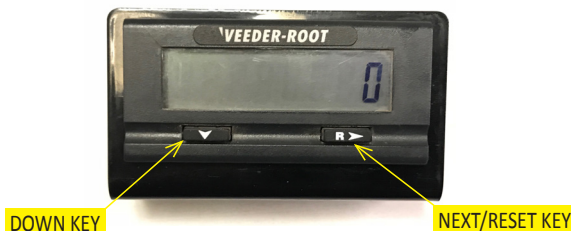⚠ *For accurate feeding, this must be done for each different type of feed.*

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COUNTER CONFIGURATION - HYDRAULIC

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 program-ming 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 pa-rameter 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 ad-vance to next parameter. **Factory preset is 00.0667**.
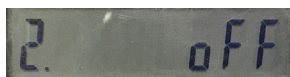
 2   The second menu is the "Display Decimal Point". This should be set to "off". Press the down key to advance to next parameter.

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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.
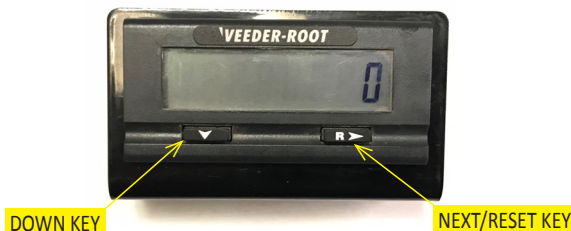
COUNTER CONFIGURATION - ELECTRIC

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.

DOWN KEY   NEXT/RESET 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.

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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 Re-set 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.

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.

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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.

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TROUBLESHOOTING
hydraulic

HYDRAULIC FEEDER DISPLAY/SENSOR TROUBLESHOOTING FLOWCHART

HydraFeeder *by* **HydraBed**

Drawing : 30-0021 B   September 19, 2018

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 AID IN TROUBLESHOOTING, TEMPORARILY REPROGRAM THE NUMBER ONE (1) MENU TO 01.0000 AND MOVE THE WHITE WIRE FROM THE NUMBER TWO (2) TERMINAL TO THE NUMBER THREE (3) TERMINAL.

GENERAL NOTES

1. REFER TO HYDRA FEEDER OWNERS MANUAL FOR DISPLAY FUNCTIONS AND PROGRAMMING INSTRUCTIONS
2. REFER TO OWNERS MANUAL FOR WIRING DIAGRAM 30-1800
3. ALL "AT PLUG" INSTRUCTIONS ARE TO BE MADE AT THE PLUG CONNECTED TO THE TRUCK NOT THE HYDRAULIC MOTOR.
4. CHECK FOR VOLTAGE USING COMMON 12V TEST LIGHT.

AFTER CORRECTING PROBLEM DO THE FOLLOWING

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.

Click on drawing for additional information

DOES THE BACK LIGHT WORK?

AT DISPLAY CHECK VOLTAGE
TERM 1-BLK-GND
TERM 8-GRN-12V

VOLTAGE?

CHECK WIRING CONNECTIONS
BLK-GND
GRN-12V
MAKE REPAIRS

ANYTHING ON DISPLAY

REPLACE DISPLAY
HF-A103-001

CLEAN BATTERY CONNECTIONS

REPLACE BATTERY

DO BUTTONS FUCTION?

CHECK WIRING CONNECTION
BLK-GND
WHT-SIGNAL
MAKE REPAIRS

AT DISPLAY JUMP BETWEEN
TERM 1-BLK-GND
TERM 3-WHT-SIGNAL

DISPLAY ADVANCE?

AT PLUG JUMP BETWEEN
TERM B-WHT-SIGNAL
TERM C -BLK-GND

DISPLAY ADVANCE?

AT PLUG CHECK VOLTAGE FROM
TERM A-GRN-12V
TO
CHASSIS GROUND

VOLTAGE?

CHECK WIRING CONNECTIONS BLK-GND
MAKE REPAIRS

CHECK WIRING CONNECTIONS GND - 12V
MAKE REPAIRS

AT PLUG CHECK VOLTAGE FROM
TERM A-GRN-12V
TO
TERM C-BLK-GND

VOLTAGE?

RECONNECT PLUG AND OPERATE FEEDER

DISPLAY ADVANCE?

REPLACE SENSOR?
HF-SS-201779-1

PROBLEM SOLVED

1. Total Display
2. Down Key
3. Set/Reset Key

ELECTRIC FEEDER DISPLAY/SENSOR TROUBLESHOOTING FLOWCHART

THIS WILL VERIFY THAT THE DISPLAY BATTERY IS GOOD AND THE BUTTONS WORK PROPERLY.

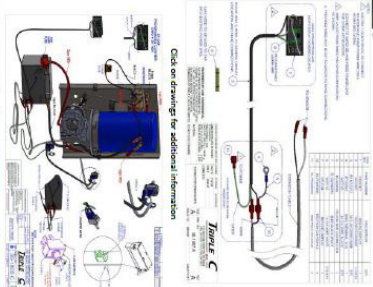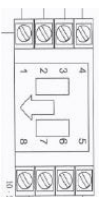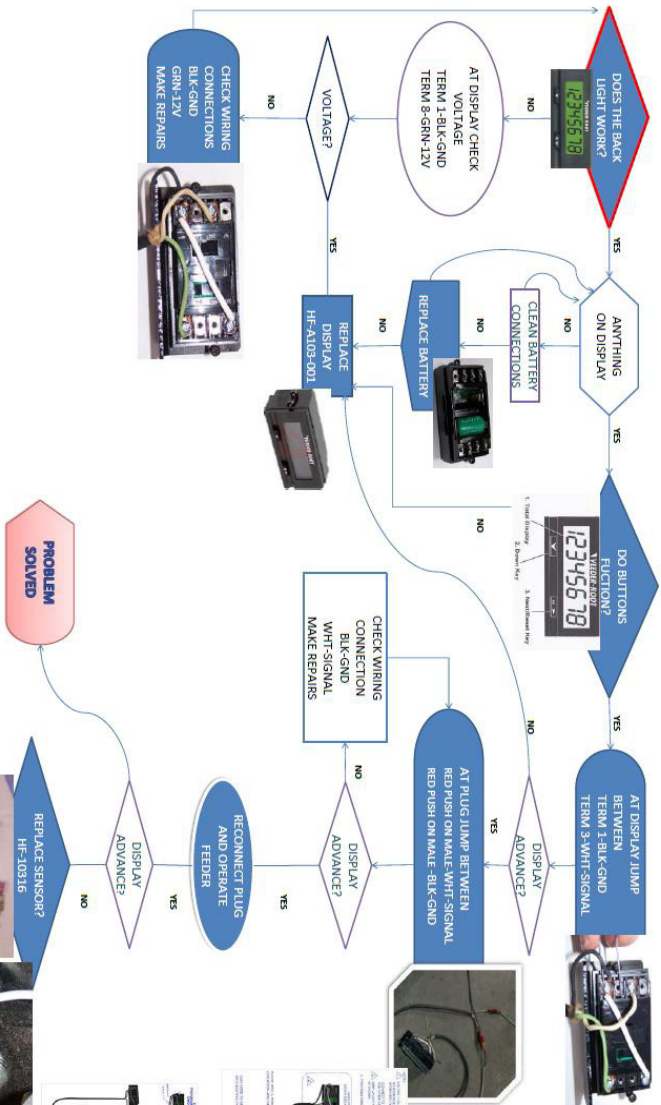**DO THE FOLLOWING FIRST**

1. CHECK AND CORRECT ALL 4 MENU SETTINGS AS NEEDED. THIS WILL VERIFY THAT THE DISPLAY
   REFER TO OWNERS MANUAL. THIS COULD SOLVE THE PROBLEM

2. MOVE TO THE NUMBER ONE (1) MENU AND RECORD CURRENT SETTING (CUSTOM SETTING).
   TO AID IN TROUBLESHOOTING, TEMPORARILY REPROGRAM THE NUMBER ONE (1) MENU TO 01.0000

GENERAL NOTES

1. REFER TO HYDRA FEEDER OWNERS MANUAL FOR DISPLAY FUNCTIONS AND PROGRAMMING INSTRUCTIONS
2. REFER TO OWNERS MANUAL FOR WIRING DIAGRAM 30-1801 & 30-1805.
3. CHECK FOR VOLTAGE USING COMMON 12V TEST LIGHT.

DOES THE BACK LIGHT WORK?

AT DISPLAY CHECK VOLTAGE
TERM 1-BLK-GND
TERM 8-GRN-12V

VOLTAGE?

NO — CHECK WIRING CONNECTIONS
BLK-GND
GRN-12V
MAKE REPAIRS

YES — ANYTHING ON DISPLAY

NO — CLEAN BATTERY CONNECTIONS

NO — REPLACE BATTERY

NO — REPLACE DISPLAY HF-A103-001

YES — DO BUTTONS FUCTION?

1. Total Display
2. Down Key
3. Next/Reset Key

YES — AT DISPLAY JUMP BETWEEN
TERM 1-BLK-GND
TERM 3-WHT-SIGNAL

NO

DISPLAY ADVANCE?

NO — CHECK WIRING CONNECTION
BLK-GND
WHT-SIGNAL
MAKE REPAIRS

YES — AT PLUG JUMP BETWEEN
RED PUSH ON MALE-WHT-SIGNAL
RED PUSH ON MALE -BLK-GND

YES — DISPLAY ADVANCE?

NO — RECONNECT PLUG AND OPERATE FEEDER

YES — DISPLAY ADVANCE?

NO — REPLACE SENSOR? HF-103316

YES — PROBLEM SOLVED

Click on drawings for additional information

Drawing : 30-0924   September 19, 2018