
HYDRA FEEDER

HF 1200



Hydraulically Powered Supplement Feeder

TRIPLE C
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HYDRA FEEDERTM HF 1200 & HF 1800 Owner's Manual

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 **HYDRA FEEDERTM** 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 **HYDRA FEEDERTM**.

NEVER load/unload **HYDRA FEEDERTM** while loaded unless proper precautions have been taken. Consult factory for proper instructions.

ALWAYS use sound judgment and common sense when operating your **HYDRA FEEDERTM**.

HYDRA FEEDERTM Installation Instructions on all HYDRA BED[®] Models

1. Using the arm pins provided with the **HYDRA FEEDERTM**, lift the unit onto the **HYDRA BED[®]**. Slide the **HYDRA FEEDERTM** forward against the headache rack and center it.
2. Mark and drill two 7/16" holes into the bed floor through the slots located in the **HYDRA FEEDERTM** feet.
3. Attach **HYDRA FEEDERTM** feet to bed floor using 3/8 bolts, washers and nuts.
4. With the two 5/16" U-bolts provided, fasten the **HYDRA FEEDERTM** tabs to the headache rack.
5. Attach the hydraulic hoses to the hydraulic motor fittings on the **HYDRA FEEDERTM**. Route and secure the hoses over the filler plate in the headache rack and under the bed to the auxiliary rear quick couplers.

***HYDRA FEEDER*TM Installation Instructions for All Other Applications**

1. Verify that the load carrying capacity and hydraulic specifications of tractor, skid loader or other machine selected for installation meet the recommendations for the ***HYDRA FEEDER*TM** model to be installed.
2. Mount unit with factory approved mounting hardware and brackets.
3. Install sensor and digital read-out as described below, modifying wire routing and read-out location to fit your application.
4. Connect hydraulic hoses to motor fittings and to quick couplers on vehicle or machine.
5. Follow the initial startup procedures below.

HYDRA FEEDER*TM Digital Counter Installation Instructions *Hydraulic Motor Mounted Sensor and Programmable Display

Refer to Drawing HF12-62

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 ***HYDRA BED*[®]** dash bracket.
3. Connect the 20' Sensor Harness (HF12-46) to the sensor on the ***HYDRA FEEDER*TM** 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 ***HYDRA BED*[®]** dash bracket.
4. Make all other wire connections per drawing HF12-62. 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.

HYDRA FEEDERTM Digital Counter Installation Instructions ***Hydraulic Motor Mounted Sensor and Non-Programmable Display***

Refer to Drawing HF12-48

1. Install the digital read-out at your preferred location in the cab. (Typically on the dash to the left of the steering column.)
2. Connect the 20' Sensor Harness (HF12-46) to the sensor on the ***HYDRA FEEDER***TM 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 ***HYDRA BED***[®] dash bracket.
3. Make all other wire connections per drawing HF12-48. 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.

HYDRA FEEDERTM Digital Counter Installation Instructions ***External Sensor w/ Auger Magnet and Non-Programmable Display***

Refer to Drawings HF12-20 and HF12-25

1. Install the jam nut on the sensor-threaded body.
2. Screw the sensor through the weld-on in the passenger side near the bottom of the feeder until it is within 1/4" of the auger magnet. While it is your responsibility to verify that the sensor CANNOT contact the auger or the magnets at any time during rotation of the auger, you must NEVER attempt to make adjustment or measurement while the auger is rotating.
3. Carefully tighten the sensor jam nut to hold it in position.
4. Install the digital read-out at your preferred location in the cab. (Typically on the dash to the left of the steering column.)
5. Connect the 15' of two conductor jacketed cable to the sensor and to the cab-mounted digital read-out, routing it along the truck chassis in a protected and secure manner.
6. Make all other wire connections per drawing HF12-25.

HYDRA FEEDERTM Initial Startup Procedures

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.

HYDRA FEEDERTM Programming Your Digital Counter ***Programmable Display 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 31
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: $63 / 31 = 2.0323$
6. Divide the number of pounds per revolution by 15. This will be the factor you will program into the digital display.
Example: $2.0323 / 15 = .1355$
7. This is the programming factor for that particular feed. Record this factor and feed type for future reference.

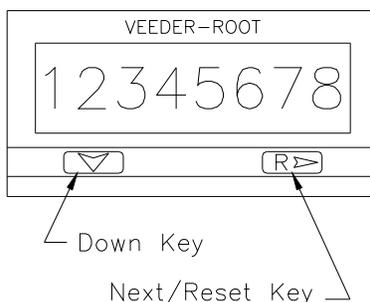
For accurate feeding, this must be done for each different type of feed.

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. 00.0667

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 49. **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. off

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. 000000

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. on

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.

HYDRA FEEDERTM 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 to rotate auger in the discharge direction.
4. To retract feed remaining in discharge tube, reverse hydraulic control for 3 to 5 auger revolutions. (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 may assist in freeing the problem.
8. If it is necessary to load/unload **HYDRA FEEDERTM** onto **HYDRA BED[®]** while loaded, consult with factory.