



16027 Hwy 64 East – Anamosa, Iowa 52205

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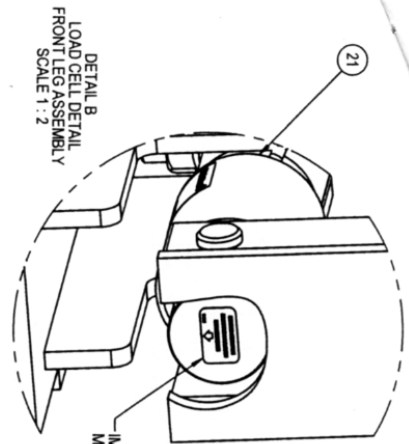
**John Deere 1790 CCS Scale System
New Style
with Bauer Bar & Refuge Hopper
Instruction Booklet**



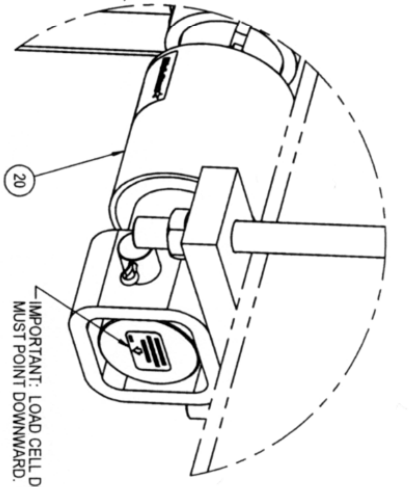
This product application is covered by U.S. Patents;

PATENTS: 6,732,667—7,059,258—7,273,017—7,357,087—7,448,335—7,523,710

PATENT PENDING: 12/427,915



IMPORTANT: LOAD CELL DECAL MUST POINT DOWNWARD.



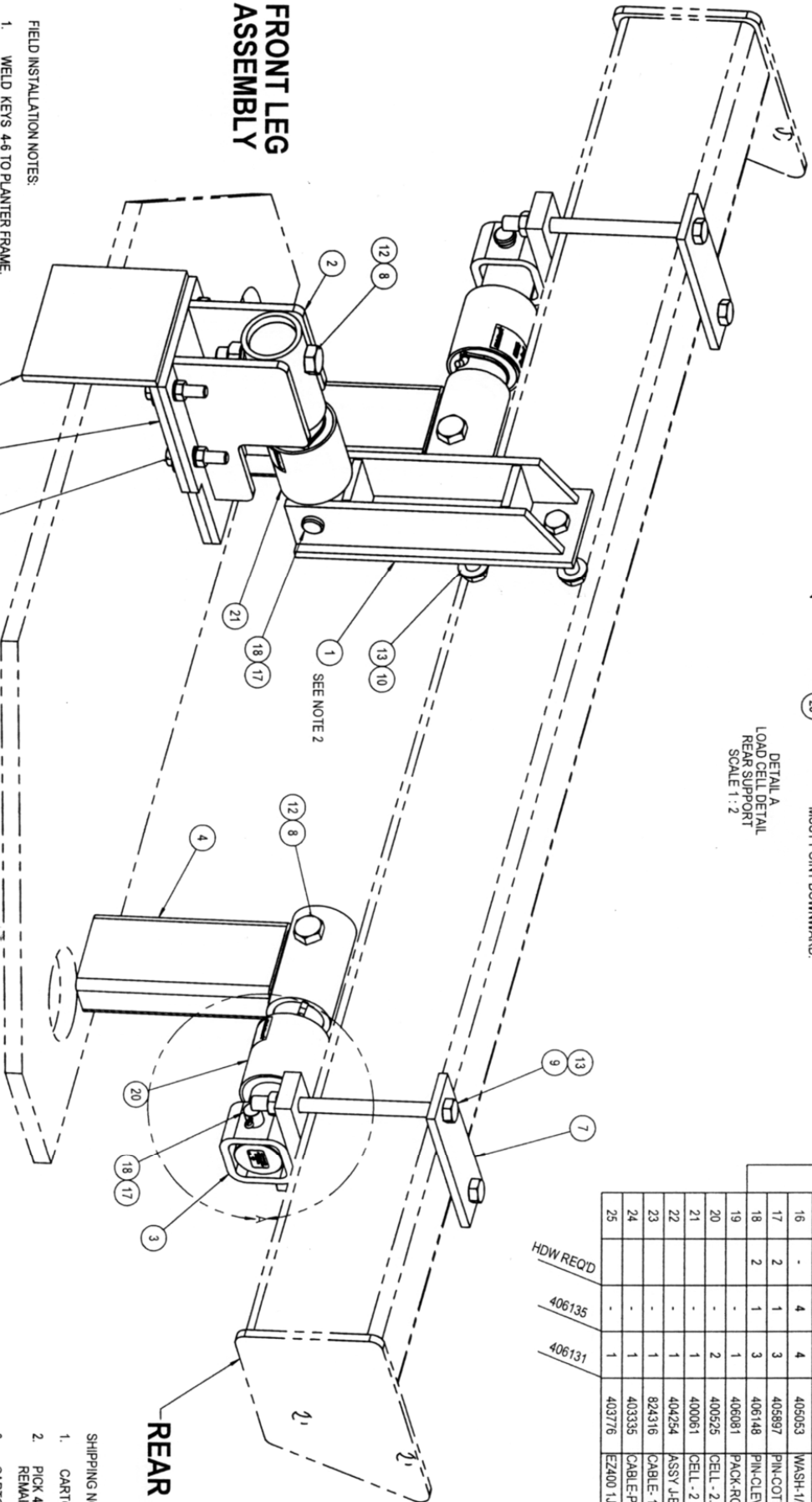
IMPORTANT: LOAD CELL DECAL MUST POINT DOWNWARD.

KEYS 8-18 ARE COMPONENTS OF PIN 406135 PACK-HARDWARE (JD1790)

KEY	COL 2 QTY REQ'D	COL 1 QTY	PART NO	DESCRIPTION
1	-	1	406047	WELD-MID TOP BRKT (JD1790-03)
2	-	1	406046	WELD-MID BOTTOM BRKT (JD1790-04)
3	-	2	406037	WELD-TOP LEG BRKT (JD1790-01)
4	-	2	405995	WELD-REAR BRKT (JD1790-03)
5	-	1	406041	PLATE-WELD IN (JD1790-02)
6	-	1	406042	PLATE-WELD IN 6" (JD1790-02)
7	-	2	406036	PLATE-LEG BRKT (JD1790-01)
8	-	3	405895	SCR - .34-10 X 4.0 HHCS ZP GRD 5
9	4	4	405863	SCR -5/8-11 X 8-1/2 HHCS ZP GRD 5
10	-	2	406129	SCR -5/8-11 X 3.5 HHCS ZP GRD 5
11	-	4	405864	SCR -1/2-13 X 2-1/4 HHCS ZP GRD 5
12	-	3	405988	NUT-3/4-11 TOP-LOOK FLANGE ZP
13	4	2	406070	NUT-5/8-11 TOP-LOOK FLANGE ZP
14	-	4	405856	NUT -1/2-13 HEX ZP
15	-	4	405855	WASH-1/2 LOCK ZP
16	-	4	405953	WASH-1/2 FLAT WIDE ZP
17	2	1	405897	PIN-COTTER 5/32 X 1.0 ZP
18	2	1	406148	PIN-CLEVIS 3/4 X 4.0 ZP
19	-	1	406081	PACK-ROBO SWIVEL MOUNT
20	-	1	400525	CELL - 2.125 DB
21	-	1	400061	CELL - 2.1/8 DB PIN H - 4140
22	-	1	404254	ASSY J-BOX 3P/4PT MOBILE
23	-	1	824316	CABLE-15FT J-BOX
24	-	1	403335	CABLE-POWER 17FT 2-WIRE
25	-	1	403776	EZ400 1.802/BL-IND

HW REQ'D
406135
406131

FRONT LEG ASSEMBLY



REAR BAUER FRAME

- SHIPPING NOTES:
- CARTON KEYS 1-7
 - PICK 406135 PACK-HARDWARE (JD1790) AND REMAINING HARDWARE IN COLUMN 2.
 - CARTON KEYS 19-25.

FIELD INSTALLATION NOTES:

- WELD KEYS 4-6 TO PLANTER FRAME.

IMPORTANT: WHEN WELDING ON PLANTER PLACE GROUND CLOSE TO THE WELD. DO NOT RUN AN ELECTRICAL CURRENT THROUGH THE LOAD CELLS.

SEE NOTE 1

- TWO BOLTS ARE REQUIRED TO MOUNT KEY 1. TOP BOLT IS REQUIRED ON ALL MODELS. THE MIDDLE AND LOWER HOLE IS USED DEPENDING ON PLANTER MANUFACTURED DATE.

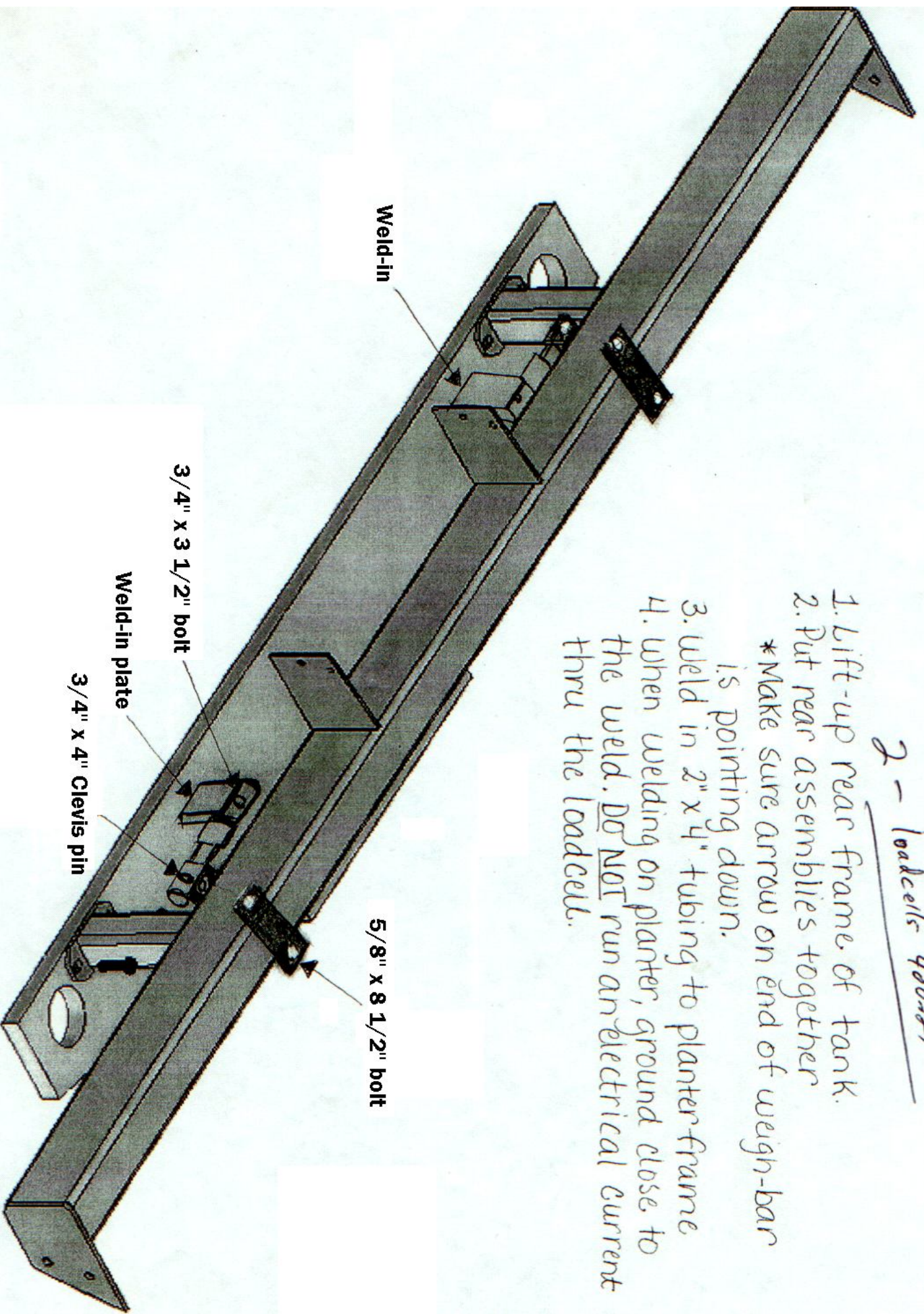
REV	DATE	DESCRIPTION	BY	CHKD
A	09-22-22	RELEASED		
	07/22/09			
	7/3/06			

		WISSET STATE HWY 106, FORT ATKINSON, WIS 53120
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS ARE IN MILLIMETERS	DATE: 07/22/09 SCALE: 1:3.5 DRAWN BY: JZ/S	SHEET: 1 OF 1 SIZE: 406131

Rear Brackets: Bower Frame

2 - loadcells 400525

1. Lift-up rear frame of tank.
2. Put rear assemblies together
3. Weld in 2" x 4" tubing to planter frame
4. When welding on planter, ground close to the weld. DO NOT run an electrical current thru the loadcell.



5/8" x 8 1/2" bolt

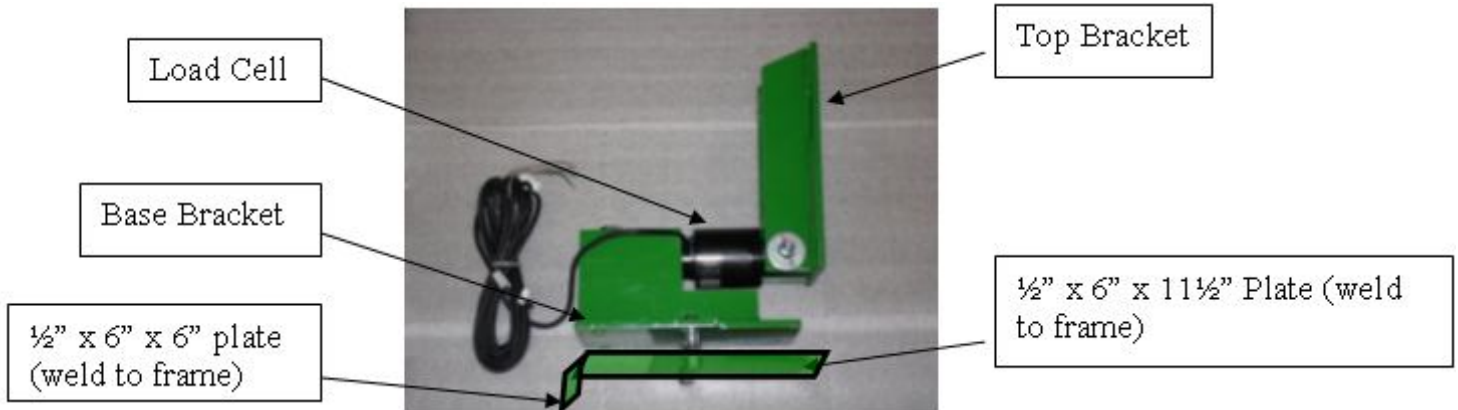
3/4" x 3 1/2" bolt

Weld-in plate

3/4" x 4" Clevis pin



1790 New Style with Bauer, Front Leg Assembly



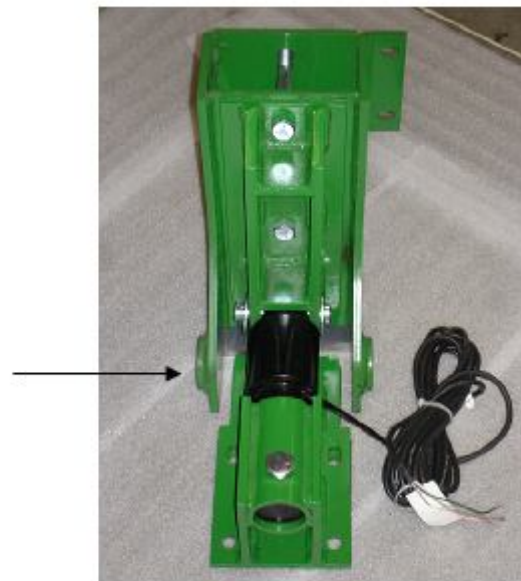
1.
 - Remove the two horizontal 5/8" bolts to the front leg.
 - Lift the front leg up 3/4".Assemble the Front Leg Assembly.
 - **IMPORTANT:** The load cell arrow located on the end of the FRONT LOAD CELL needs to be pointed DOWN.

2.
 - Use the 3" x 3/4" bolt to bolt the load cell to the base bracket.
 - Use the 4" x 3/4" clevis pin from the load cell to the top bracket.

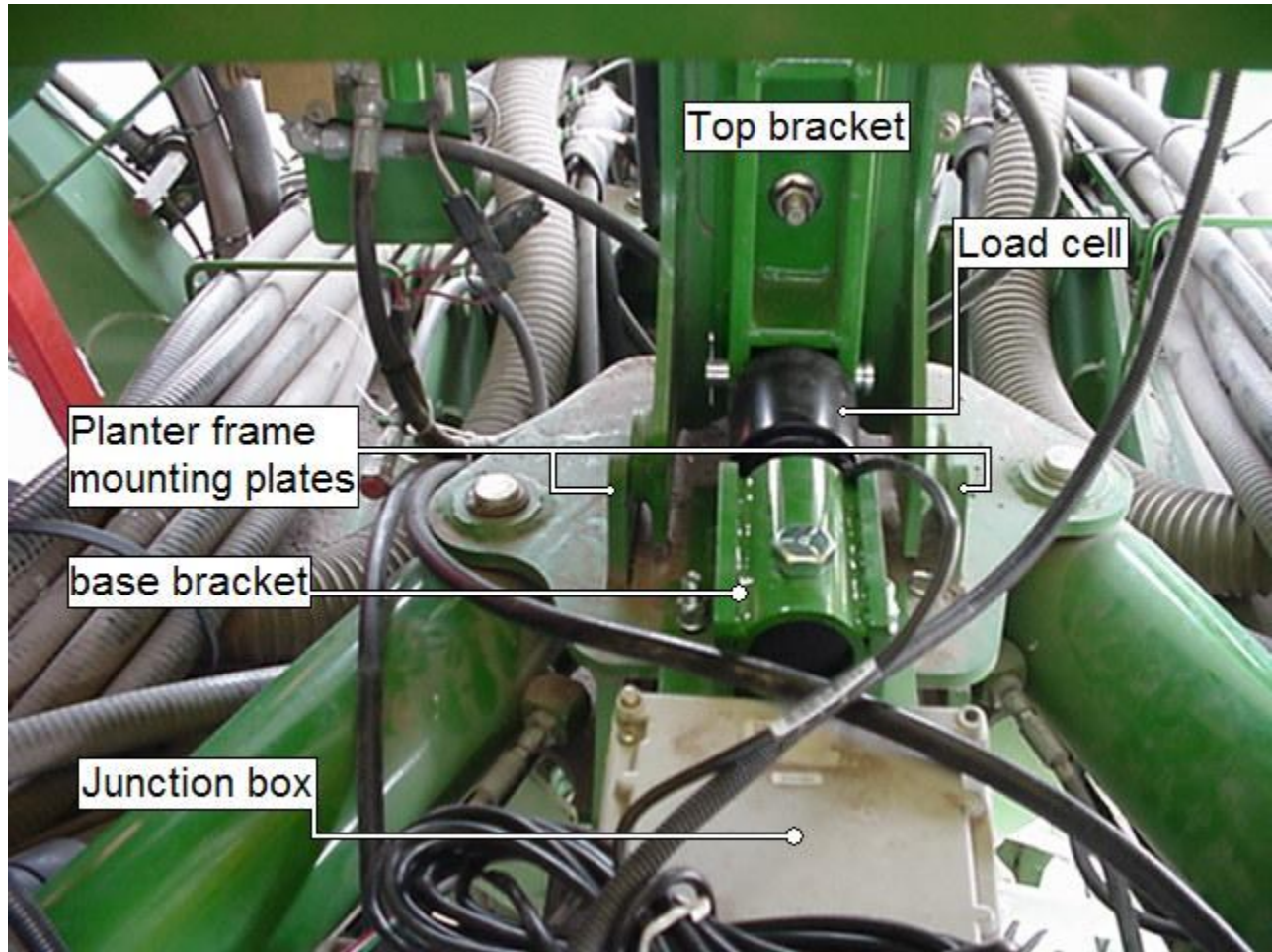
3.
 - Install the Front Leg Assembly to the front leg, using the existing hardware.
 - Use the 2 1/2" x 1/2" bolts provided to hold the base bracket and shim plate to the planter frame.
 - Tighten the base plate to planter frame.

Make sure the front leg is not rubbing on the two mounting plates on the planter frame!

The junction box gets bolted to the two holes on the end of the base bracket.

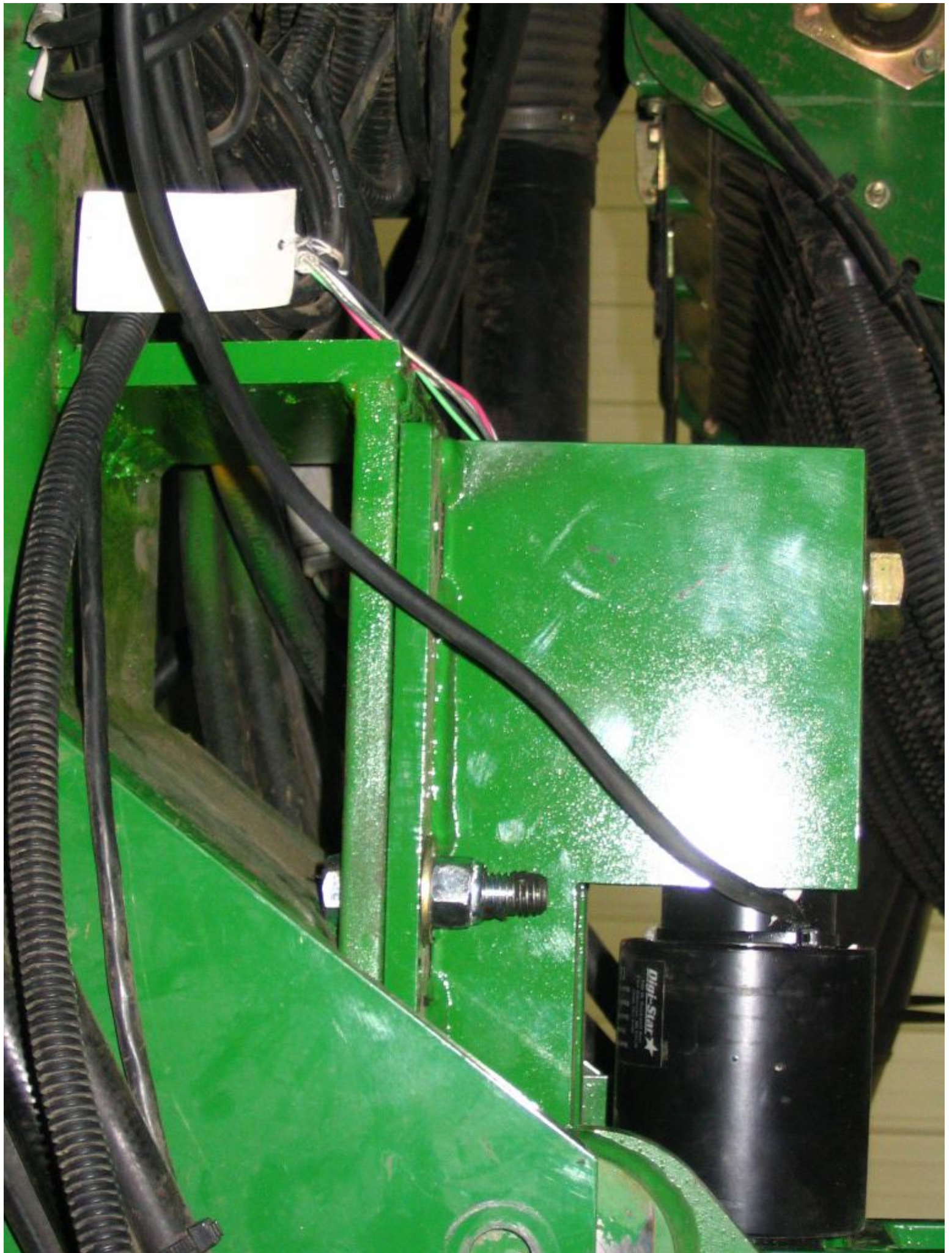


1790 New Style Front Leg Assembly



- 1.) Remove the two horizontal 5/8" bolts to the front leg and mounting plates on the planter frame. Lift the front leg up 3/4". Assemble the Front Leg Assembly. **IMPORTANT:** The load cell arrow located on the end of the FRONT LOAD CELL needs to be pointed DOWN.
- 2.) Use the 3"x3/4" bolt to bolt the load cell to the base bracket. Use the 4"x3/4" clevis pin from the load cell to the top bracket.
- 3.) Install the Front Leg Assembly to the front leg, using the existing hardware. Use the 2 1/2" x 1/2" bolts provided to hold the base bracket and shim plate to the planter frame. Tighten the base plate to planter frame.

If you have any questions regarding the installation or the product, give us a call at (319)-462-2344, or Toll-Free +1-888-962-2344.





Refuge Hopper

Remove the refuge hopper leg and bolt in the new scale leg. Use the 5" x 3/4" bolts to hold weigh bar in place. Bolt the top bracket to the frame with the 18" x 9 1/2" U-bolt.

Note: It is important that the load cell arrow, located on the end of the load cell, must be pointing upward.

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Indicator mounted on planter



Above: the indicator can also be mounted to the railing. Then it can be turned to face backward while filling the hoppers, and turned forward for observation from the cab while planting.

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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 connector located on the bottom panel of the scale.

Connect the RED wire from the power cable to +12 VDC and the BLACK wire to GROUND. The indicator is fused internally at 4 amps.

Power Cable Connections:

Wire color	Wire Function
Red	<i>Battery (+12 VDC)</i>
Black	<i>GROUND</i>

Load Cell Connection:

The indicator is designed to operate with strain gage load cells. The indicator will normally be supplied with a "J-BOX" cable going between the scale and the load cell junction box. Extension kits are available from your dealer in various lengths.

To connect the load cells, attach the junction box cable to the J902 or J903 connector on the bottom panel of the scale.

How to use a scale on a Central Fill System

*** The example we are using is 2000 lbs of seed evenly filled in both hoppers. There is 25 lbs of seed left from the last fill.

1. Push the 'Start' button. The screen will show zero, and the arrow is now pointing to 'Net' on the screen. This is a temporary zero point to start loading the planter with seed. You will now fill 1000 lbs of seed into the left hopper.
2. Push the 'Stop' button, the readout now reads 1025 lbs of seed inventory.
3. Push the 'Start' button again. The screen will say zero again. Load another 1000 lbs of seed into the right side.
4. Now push 'Stop,' and the screen will read 2025 lbs of seed. The numbers will work lower as the seed is planted.