



Electronic Acremeter Great Plains Drills and Seeders

Used with most Great Plains Drills^a (this includes all fertilizer and heavy duty models of drills listed)

- 2S-2600, 3S-3000, 3S-4000, 3S-5000
- BD7600-26, BD7600-30, BD7600-40
- 2N-2410, 2N-3010, 2N-2420, 2N-3020
- 605NT, 606NT, 706NT, 1006NT, 1205NT, 1206NT
- 3P605NT, 3P606NT, 3P806NT, 3P1006NT
- 3P500, 3P500V, 3P600
- 3P1200, 1210, 1220, 1500, 1510, 1520, 2000, 2010, 2020 (fluted feed drills only)
- 3P2400 (fluted feed drills only)
- 800, 1300
- NTS2507 / NTS2607, NTS2509 / NTS2609, NTS2511 / NTS2611 (Seeders)

General Information

These instructions include both operation and installation of an Electronic Acremeter.

Installation

- If installation is necessary, order the appropriate kit (see “**Acremeter Kits**”, page 37 through page 45).
- Consult your Great Plains dealer for specific ordering information.
- Each acremeter upgrades one drill.
- Installation instructions start at “**Acremeter Installation**” on page 16.

Kit	Product Description
118-260A	3P LOUP ACREMETER
152-326A	NO-TILL LOUP ACREMETER
152-327A	3P LOUP ACREMETER
152-328A	NO-TILL DUAL SEED/NG ACREMETER
152-329A	3P DUAL SEED/NG ACREMETER
175-311A	EW LOUP ACREMETER
194-073A	MIN-TILL ELECTRONIC ACRE METER
194-311A	2600 ELECTRONIC ACRE METER
197-187A	2SNT LOUP ACREMETER
152-344L	1206NT NG ACREMETER
152-337A	1206NT LOUP ACREMETER
152-351A	1205NT LOUP ACREMETER
313-854A	NTS25 DIGITAL ACREMETER

Programming the Acremeter

- If your drill was equipped with this acremeter from production, it will have been supplied already programmed.
- You will need to program your new acremeter if it is *not* preprogrammed to your drill or if you ordered it and install it yourself.



Figure 1
Electronic Acremeter

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a. The electronic acremeter is compatible with all drills having a main or transfer 7/8 hex drive shaft on any section of the drill. The shaft must be *before* any Drive Type, gearbox, lower, range, transmission or upper variable sprockets, and have only fixed sprockets and chains between the drive wheel and the shaft.

See “**Acremeter Operations**” on page 3 of this manual.

Tools Required

- basic hand tools.

Reference Information

- Find “**Calibration For All Drill Models**” on page 5.
- Find “**Drill Width Charts**” on pages 8 and 10.

Acrometer Operations

A battery-operated electronic acre counter is supplied with the drill. The display module for the system is normally on the front face of the main toolbar near the left gauge wheel.

The acrometer calculates and displays the field acres and total acres accumulated.

The meter counts rotations of the main ground drive shaft before the clutch. The meter tallies all movements with the drill unfolded, whether planting or not.

The counter operates in one of two modes

- In **sleep** mode, the display ① is blank, and the counter is accumulating acres. Sleep mode is entered if a button is not pressed for 20 seconds. If a passcode is set, it must be re-entered to change protected function values.
- In **entry** mode, the display is on, and the operator can enter values. To access entry mode, press the ***** button ②. If you continue to press the ***** button, the acre counter cycles through the available functions. The LED light above the functions indicates which function is selected.

The functions are:

FIELD	Field Acres	(always unprotected)
TOTAL	Total Acres	(passcode protectable)
PULSES	Pulses per Mile	(passcode protectable)
WIDTH	Swath Width	(passcode protectable)
P-WORD	Password	(enable/set/change/clear)

Note: U = USA units or acres

E = European units or hectares

Values are entered by pressing the UP ③ and DOWN ④ arrow buttons. Holding a button automatically increments that value. Long holds increment faster than short holds. Pressing both buttons simultaneously is used to reset some values to 0.

- To **change** modes press and hold all 3 switches at the same time. When pressed, the current mode will scroll across the screen. "U" is for USA units, "E" is for European (metric) units. When you have held all 3 switches for 5 seconds the mode will change.

This means you can check the mode at any time by pressing the 3 keys and releasing them before 5 seconds has passed without changing anything.

Note: When you change modes, all the defaults are reset to factory values so these will need to be set properly for the machine. Also area accumulated in one mode is not converted. It is reset to 0.



Figure 2
Acrometer Console

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Field Acres

Refer to Figure 3

Press the ***** button until the “FIELD” LED is lit. The digits indicate the acres covered since the field acre counter was last cleared to zero.

To clear the field acre count, depress the UP and DOWN buttons for 2 seconds.

Note: If a passcode is set, it must be entered to clear the total acre count.

Field acres count in tenths of an acre up to 9999.9 acres.



Figure 3
Field Acres Display

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Total Acres

Refer to Figure 4

Press the ***** button until both the “FIELD” and “TOTAL” LEDs are lit. The digits indicate the acres covered since the total acre counter was last cleared to zero.

To clear the total acre count, press and hold the UP and DOWN buttons for 2 seconds.

Note: If a passcode is set, it must be entered to clear the total acre count.

Total acres count from .1 to 99999 acres.



Figure 4
Total Acres Display

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Pulses per 400 Feet of Travel

Press the ***** button until the “PULSES” LED is lit. The number in the display indicates how many pulses are generated for every 400 feet (122 meters in “E” mode) driven.

Note: If a passcode is set, it must be entered to adjust the pulses per 400 feet (122 meters) of travel.

There are two methods to enter the pulses: known pulse value and calibrating pulses per 400 feet (122 meters) of travel.

Known Pulses Values

Refer to Figure 5

1. If you know the number, select it using the UP and DOWN buttons. When you press the ***** button, the controller accepts the number in the display as the new pulses per 400 feet (122 meters).

EXAMPLE:

Approximate pulses per 400 feet (122 meters) for 2S-2600, 3S-3000, 3S-4000 and 3S-5000: 17.



Figure 5
Example: Pulses Per 400 Feet Entry
for 2S-2600/3000/4000/5000

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Calibration For All Drill Models

Model	Calibration
2S-2600, 3S-3000, 3S-4000, 3S-5000	17
2N-2410, 2N-3010, 2N-2420, 2N-3020	31
706NT, 1006NT	36
1205NT, 1206NT	38
606NT	52
3P606NT, 3P806NT, 3P1006NT	46
3P500, 3P500V, 3P600	46
800EWD	52
1300EWD	16
3PT 1200, 1500	51
3PT 2000, 2400	49
NTS2507, NTS2509, & NTS2511	94
BD7600-26, BD7600-30	64
BD7600-40	62
AP-PS2072 & AP-PS2086	48
BD7600-50	61
BD7400-13	45

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Calibrating Pulses per 400 Feet of Travel

Note: Calibration is not recommended for the 2S-2600, 3S-3000, 3S-4000, or 3S-5000. Any value other than 17 pulses per 400 feet results in reduced accuracy of area measurement.

Refer to Figure 6

The acremeter can count pulses, and if the distance driven is known, the pulses per 400 feet of travel^b may be entered. Run the test with the drill unfolded, and the openers raised.

Pulses Per Mile

Note: If you have documentation yet from a past design of acremeter listing the pulse value stated as pulses per mile, divide that value by 13.2 to arrive at a new number. (5280 feet per mile/400 ft = 13.2). If you get a fraction round up to the next full digit for the best accuracy.

$$\text{Pulses Per 400 ft of Travel} = \frac{\text{Pulses Counted Per Mile}}{13.2}$$

Pulses Per 400 Feet

To calibrate the pulses per 400 feet of travel, press and hold the UP and DOWN buttons until "0" appears in the PULSES display. The acre counter is now ready to count shaft rotations.

Enter the tractor cab and drive 400 feet.

Press the ***** button to wake up the acre counter. The "PULSES" LED will again blink. The number displayed is the pulses per 400 feet. Press the ***** button to accept the setting. The "PULSES" LED will stop blinking and remain on.



Figure 6
Count Pulses Per 400 feet of Travel

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b. For more accurate calibration, operate for some multiple of 400 feet (say 1600 ft) divide the count by that multiple and round off.

Width

Model	Spacing	Width
2S-2600/F/HD/HDF-3210	10 in.	26.7 feet 8.1 meters
2S-2600/F/HD/HDF-4275	7.5 in.	26.3 feet 8.0 meters
2S-2600/F/HD/HDF-5206	6 in.	26.0 feet 7.9 meters

Model	Spacing	Width
3S-3000/F/HD/HDF-3610	10 in.	30.0 feet 9.1 meters
3S-3000/F/HD/HDF-4875	7.5 in.	30.0 feet 9.1 meters
3S-3000/F/HD/HDF-6006	6 in.	30.0 feet 9.1 meters

Model	Spacing	Width
3S-4000/F/HD/HDF-4810	10 in.	40.0 feet 12.2 meters
3S-4000/F/HD/HDF-6375	7.5 in.	39.4 feet 12.0 meters
3S-4000/F/HD/HDF-7806	6 in.	39.0 feet 11.9 meters

Model	Spacing	Width
3S-5000/F/HD/HDF-6010	10 in.	50.0 feet 15.2 meters
3S-5000/F/HD/HDF-8075	7.5 in.	50.0 feet 15.2 meters
3S-5000/F/HD/HDF-1006	6 in.	50.0 feet 15.2 meters

Drill Width Charts

Model	Spacing	Width
2N-2410-2810	10 in.	23.3 feet (7.1 meters)
2N-2410-3875	7.5 in.	23.8 feet (7.9 meters)
2N-3010-3610	10 in.	30.0 feet (9.1 meters)
2N-3010-4875	7.5 in.	30.0 feet (9.1 meters)

Model	Spacing	Width
2N-2420-2810	10 in.	23.3 feet (7.1 meters)
2N-2420-3875	7.5 in.	23.8 feet (7.9 meters)
2N-3020-3610	10 in.	30.0 feet (9.1 meters)
2N-3020-4875	7.5 in.	30.0 feet (9.1 meters)

Model	Spacing	Width
606NT-0975	7.5 in.	5.6 feet (1.7 meters)
706NT-1075	7.5 in.	6.3 feet (1.9 meters)
1006NT-1575	7.5 in.	9.4 feet (2.9 meters)
1205NT-1975	7.5 in.	11.9 feet (3.6 meters)
3P606NT-0975	7.5 in.	5.6 feet (1.7 meters)
3P806NT-1375	7.5 in.	8.1 feet (2.5 meters)
3P1006NT-1575	7.5 in.	9.4 feet (2.9 meters)
1206NT-1410	10 in.	11.6 feet (3.5 meters)
1206NT-1808	8 in.	12 feet (3.6 meters)
1206NT-1975	7.5 in.	11.8 feet (3.6 meters)
1206NT-2007	7 in.	11.6 feet (3.5 meters)

Model	Spacing	Width
3P600-0975	7.5 in.	5.6 feet (1.7 meters)
3P600-1106	6 in.	5.5 feet (1.7 meters)
3P500-0775	7.5 in.	4.4 feet (1.3 meters)
3P500-0906	6 in.	4.5 feet (1.4 meters)
3P500-0775 (V)	7.5 in.	4.4 feet (1.3 meters)
3P500-0872 (V)	7.25 in.	4.8 feet (1.5 meters)
3P500-0906 (V)	6 in.	4.5 feet (1.4 meters)

Model	Spacing	Width
800-1275	7.5 in.	8.1 feet (2.5 meters)
800-1506	6 in.	7.5 feet (2.3 meters)
1300-1610	10 in.	13.3 feet (4.1 meters)
1300-2175	7.5 in.	13.1 feet (4.0 meters)
1300-2506	6 in.	13.0 feet (4.0 meters)

Model	Spacing	Width
AP-PS2072	7.2 in.	6 feet (1.8 meters)
AP-PS2086	7.2 in.	7.2 feet (2.2 meters)

Drill Width Charts (continued)

Model 1200/1210/1220	Spacing	Width
1200-1410 (3PT)	10 in.	11.7 feet (3.6 meters)
1200-1808 (3PT)	8 in.	12.0 feet (3.6 meters)
1200-1975 (3PT)	7.5 in.	11.9 feet (3.6 meters)
1200-2007 (3PT)	7 in.	11.7 feet (3.6 meters)
1200-2406 (3PT)	6 in.	12.0 feet (3.6 meters)

Model 1500/1510/1520	Spacing	Width
1500-1810 (3PT)	10 in.	15.0 feet (4.6 meters)
1500-2208 (3PT)	8 in.	14.7 feet (4.5 meters)
1500-2475 (3PT)	7.5 in.	15.0 feet (4.6 meters)
1500-2607 (3PT)	7 in.	15.2 feet (4.6 meters)
1500-3006 (3PT)	6 in.	15.0 feet (4.6 meters)

Model 2000/2010/2020	Spacing	Width
2000-2410 (3PT)	10 in.	20.0 feet (6.1 meters)
2000-3008 (3PT)	8 in.	20.0 feet (6.1 meters)
2000-3275 (3PT)	7.5 in.	20.0 feet (6.1 meters)
2000-3407 (3PT)	7 in.	19.8 feet (6.0 meters)
2000-4006 (3PT)	6 in.	20.0 feet (6.1 meters)

Model	Spacing	Width
2400-2810 (3PT)	10 in.	23.3 feet (7.1 meters)
2400-3608 (3PT)	8 in.	24.0 feet (7.3 meters)
2400-3875 (3PT)	7.5 in.	23.8 feet (7.3 meters)
2400-4007 (3PT)	7 in.	23.3 feet (7.1 meters)
2400-4806 (3PT)	6 in.	24.0 feet (7.3 meters)

Model	Spacing	Width
NTS2507	7.2 in.	7.3 feet (2.2 meters)
NTS2509	7.2 in.	8.5 feet (2.6 meters)
NTS2511	7.2 in.	10.9 feet (3.3 meters)

Model	Spacing	Width
BD7600-26-3210	10 in.	26.3 feet (8 meters)
BD7600-26-4275	7.5 in.	26.4 feet (8.1 meters)
BD7600-26-5206	6 in.	26.7 feet (8.1 meters)

Drill Width Charts (continued)

Model	Spacing	Width
BD7600-30-3610	10 in.	30.4 feet (9.3 meters)
BD7600-30-4875	7.5 in.	30.2 feet (9.2 meters)
BD7600-30-6006	6 in.	30.0 feet (9.1 meters)

Model	Spacing	Width
BD7600-40-4810	10 in.	39.6 feet (12.1 meters)
BD7600-40-6375	7.5 in.	39.7 feet (12.1 meters)
BD7600-40-7806	6 in.	40.0 feet (12.2 meters)

Model	Spacing	Width
BD7600-50-6010	10 in.	50.0 feet (15.2 meters)
BD7600-50-8075	7.5 in.	50.2 feet (15.3 meters)
BD7600-50-1006	6 in.	50.4 feet (15.4 meters)

Model	Spacing	Width
BD7410-13-1610	10 in.	13.3 feet (4.1 meters)
BD7410-13-2175	7.5 in.	13.1 feet (4.0 meters)
BD7410-13-2606	6 in.	13.0 feet (4.0 meters)

Passcode

The “P-WORD” function allows you to protect:

- the total acre count,
- pulses per 400 feet and
- width

settings with a 4-digit passcode. This prevents accidental and malicious changes to those settings. As provided by the factory, the passcode feature is disabled, and you can modify those function values at any time.

Press the ***** button until the “P-WORD” LED is lit. The display reads either:

“Ent” (enter passcode) or

“dis” (passcode disabled)

Enable and Set Passcode

The P-WORD display must show “dis” in order to enable and set a passcode on a unit which presently has no passcode (see below for changing an existing passcode).

Refer to Figure 7

Use the UP and DOWN buttons to select a passcode in the range 0001 through 9999 (0000 disables).

Press ***** button to accept the passcode. If the module enters sleep mode before you press the ***** button, the passcode is not set.

Note: The protected function values remain unprotected until the next time the module enters sleep mode.

Using a Passcode

If the P-WORD display shows “Ent”, a passcode must be entered, or the protected function values cannot be changed.

Refer to Figure 8

Enter the passcode using the UP and DOWN buttons.

When your passcode is displayed, press the ***** button to test the passcode.

If the passcode is correct, you can change the protected settings.

The protected settings are unprotected, and the password remains viewable in the P-WORD display function, until the module next enters sleep mode. When ***** button is next pressed, the passcode is again required to change protected settings.

If the entered passcode is not correct, the protected settings cannot be changed. When the “P-WORD” function is selected again, “Ent” appears in the display.



Figure 7
Password Presently Disabled

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Figure 8
Password Prompt “ENT”

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Changing the Passcode

To change an existing passcode, first enter the existing password as described in ““Using a Passcode””.

Refer to Figure 9

While still in the P-WORD function display, select a new passcode using the UP and DOWN buttons.

Press and hold the * button until the “set” (setting password) appears in the display. Release the * button. The number in the display is your new password. Be sure to record it.

To disable the passcode, set the new password to 0000 (press and hold both UP and DOWN to do this quickly).

Press and hold the * button until “dis” (passcode disabled) appears in the display.

If the passcode is forgotten, it can be disabled by removing the batteries. In rental or managed commercial operations, it is recommended that a tamper-evident seal be affixed to the rear plate of the acre counter (securing the battery compartment).



Figure 9
Password Change Prompt

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Battery Replacement

The battery operated acre counter uses 3 AA-size alkaline batteries. Although the batteries typically last between 5 and 10 years, they should be inspected annually, as low batteries can leak corrosive chemicals, and damage the electronic acremeter.

If battery replacement is needed, the acre counter displays "LoBAte" (low battery).

For battery inspection or replacement, dismount the acre counter from the implement and remove the 4 screws on the back of the case. This will separate the housing from the rear plate. Replace the batteries with 3 high quality AA alkaline batteries.

Note: The module is dust and splash resistant, but under no circumstance should it be submerged in any conductive, corrosive or flammable liquid.



Figure 10
Replacing Batteries

34812

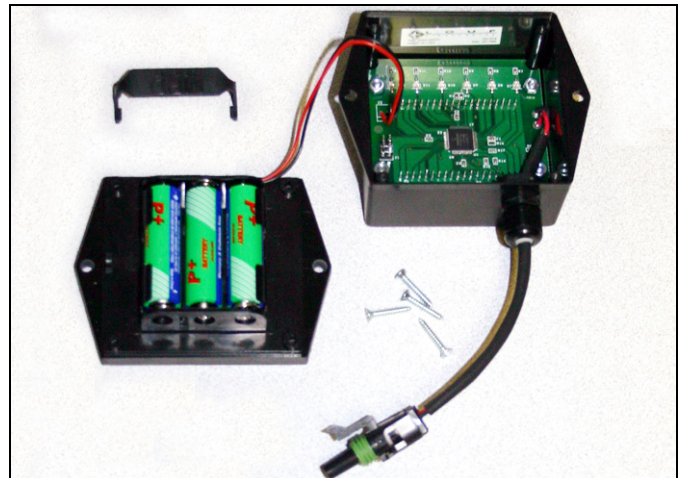


Figure 11
Replacing Batteries

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Reference Information

Accuracy Considerations

Many factors can affect the accuracy of your electronic acremeter:

- Tire Size and Tire Pressure
- Seeding Overlap
The area reported by the meter will be higher than the actual field area if passes overlap.
- Soil Conditions
The meter configuration was programmed for nominal tire slippage. Extreme conditions, wet or muddy conditions, min-till/no-till conditions and some native grass conditions may change wheel slippage, resulting in slightly inaccurate area tallies.

Display

Liquid Crystal Displays (LCDs) do not function optimally in extremely cold conditions (conditions colder than you are likely to be planting in). If the display is blank, hard to read, or sluggish, and the weather is near freezing, the LCD is likely responding to the temperature.

The battery, rotational sensor and computer electronics are still operating, however, and read-out will be possible once the meter warms up. Do not use direct application of hot air, fluids or metal to warm up the meter, or you may damage it.

Acremeter Installation

NTS25 Series Seeders

Note: Refer to your NTS Seeder Operator's Manual for installation instructions and Parts Manual for replacement part numbers. For all other machines, continue with instructions below.

Prepare Drill

Note: The following examples and instructions are for the 2S-2600. Use the instructions as a guide while referring to the illustration for your specific drill's acremeter placement starting at "**Acremeter Diagrams**" on page 19 through page 33.

The following installation instructions for installing the sensor, actuator and meter also use the 2S-2600 for the example and assembly steps. Use these instructions as a guide making sure to consult the kit contents for your particular drill starting at "**Acremeter Kits**" on page 37 through page 43.

Refer to Figure 12

1. The work may be performed with the drill raised or lowered. If lowered, a wrench may not be needed, as the drive shaft cannot rotate.

Identify the Mounting Location

2. **SENSOR:** If the drill does not presently have a shaft-mounted acremeter, look for a $\frac{7}{8}$ inch hexagonal drive shaft ① with the drive clutch connected (**this is usually the main jack shaft**). Mount the sensor on the two-hole bearing flangette at one end of this shaft.
3. **METER:** Mount the acremeter console on the front face of the main frame toolbar ② in a location close to the sensor.

Note: For 2S-2600 model: Mount meter on the right hand box frame.

For 3S-3000/4000/5000 models: Mount meter on the center box frame and the meter will remote mount on the left hand box frame.

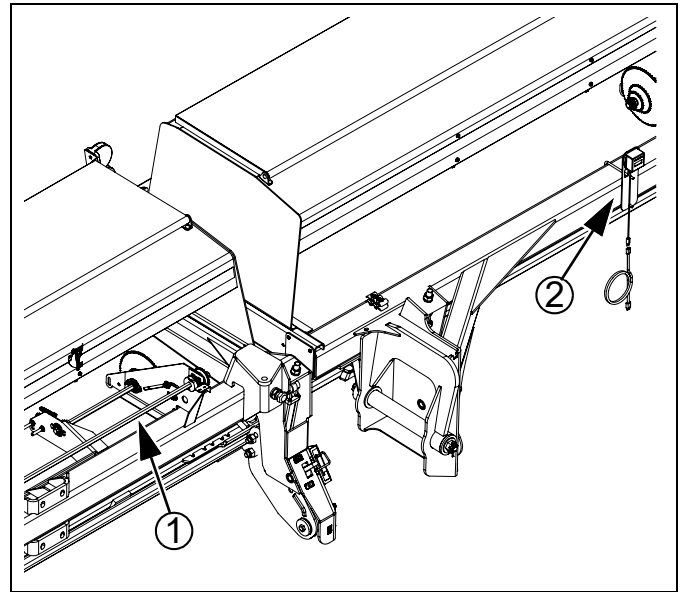


Figure 12
Shaft and Meter
(3S-3000/4000/5000)

34817

Install Sensor

Refer to Figure 13 (this example depicts the 2S-2600)

4. Select one each new:

⑬ 168-491D ACREMETER SWITCH MOUNT

⑳ 221398 SWITCH

and two sets new:

②② 804-036C WASHER FLAT 5/16 SAE PLT

①⑥ 801-067C SCREW RD HD 8-32 X 1 1/2 LG PLT

②③ 804-043C WASHER LOCK #8

②① 803-064C NUT HEX 8-32

and four new:

②⑤ 804-088C WASHER FLAT #8 SAE PLT

5. Mount the u-shaped face of the switch mount ⑬ to the face of the bearing flange using the existing flange bolts ⑤①, new flat washers ②② and existing flange nuts ⑤①.
6. Attach the flat face of the switch mount ⑬ (part facing the sensor) using the screws ①⑥, flat washers ②⑤, lock washers ②③ and hex nuts ②①.
7. Attach the pickup sensor to the sensor bracket. Secure the ground wire to one of the mounting screws. Slide the sensor so it is no more than $\frac{1}{8}$ inch from the magnet actuator. *Do not allow the sensor to touch the magnet actuator.* Leave screws finger tight until Step 9.

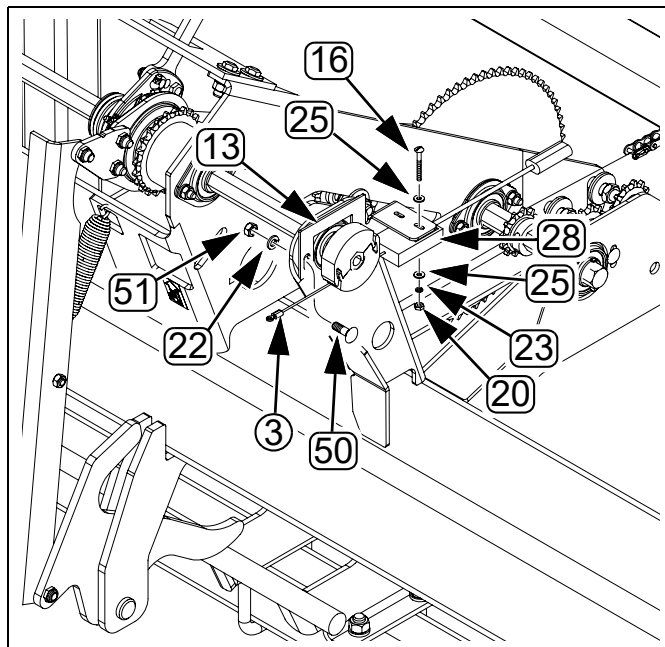


Figure 13
Install Sensor (2S-2600)

34818

Note: The individual wire ③ on the sensor is a frame ground wire that is designed to protect the acre counter from any static discharge that it may encounter. It should be attached to the metal on the drill somewhere.

Install Actuator

Refer to Figure 14 (this example depicts the 2S-2600)

8. Orient the actuator (28) so that the snap tabs cannot entangle debris during rotation (which is top-of-shaft-forward for the enumerated drill models on page 1).

Note: The acremeter counts rotations of the ground drive shaft, this is field *traveled* acres not field *planted* acres.

9. Select one new:
(28) 540002-1 7/8 HEX SNAP-ON ACTUATOR

Install the two halves of the magnet actuator (3) around the shaft and slide the actuator together. Position the magnet actuator next to the bearing mount.

Note: Take care when sliding the actuator together to avoid breaking one of the tabs.

Note: The pulse counter is not rotation direction sensitive but the position of the sensor to the spinning magnet actuator is. The sensor should have the end opposite from the connection harness towards the shaft and the wide dimension of the switch housing centered on the plastic wheel width, $\frac{1}{8}$ inch gap is recommended.

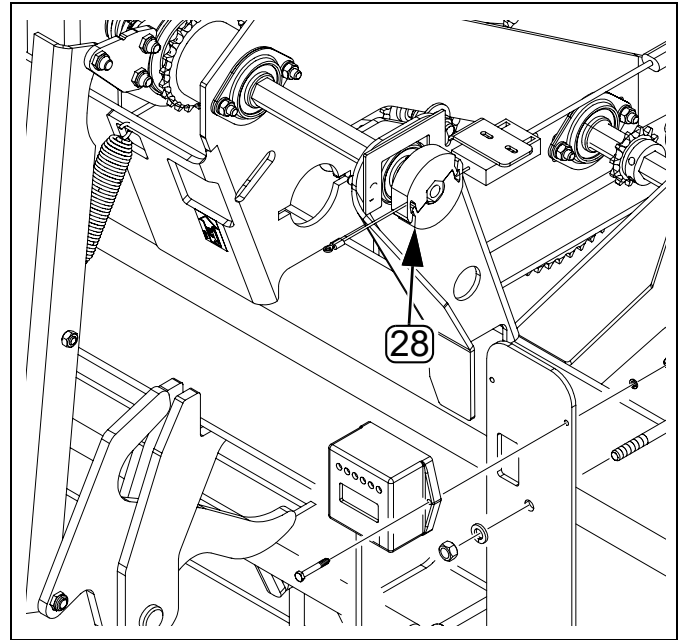


Figure 14
Attach Actuator (2S-2600)

34820

Install Meter

Refer to Figure 15

When mounting the acremeter console to the drill frame, **select a location close to the pickup sensor** which allows easy access for reading or adjustments. Pick a location which allows the console to be mounted in a vertical position.

Refer to Figure 15 (this example depicts the 2S-2600)

10. Select a ground driven shaft (1) with easy access.

Select one each new:

- (27) 221422 ELECTRONIC ACRE METER
- (14) 168-492D ACREMETER MOUNT
- (26) 806-051C U-BOLT 3/8-16 X 6 1/32 X 7
- (29) 221399 CONSOLE

and two sets new:

- (21) 804-013C WASHER LOCK SPRING 3/8 PLT
- (19) 803-014C NUT HEX 3/8-16 PLT
- (17) 802-826C HHCS #10-24X1 1/4 PLT GR5
- (24) 804-054C WASHER LOCK #10
- (18) 803-001C NUT HEX 10-24 PLT

On the front face (2) of the main toolbar, attach mount (14) with U-bolt (26) using lock washer springs (21) and hex nuts (19). Attach acremeter (27) to mount using screws (17), lock washers (24) and hex nuts (18).

11. Connect the cable from the sensor pickup to the acre counter console. Through the hole in the mount, windup and tie out of the way any extra cable.

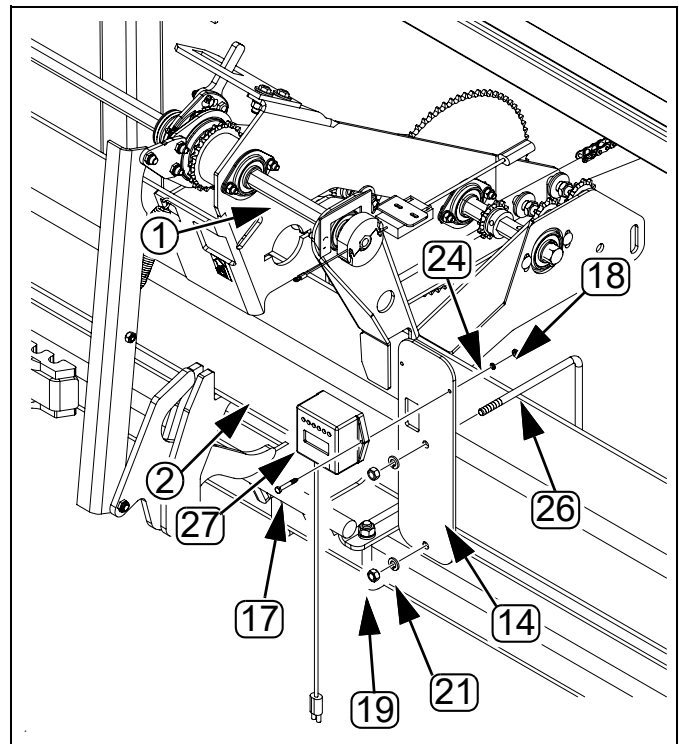


Figure 15
Mount Meter (2S-2600)

34820

Acremeter Diagrams

Acre Meter Location 2N-2410, 2N-3010, 2N-2420, and 2N-3020 (Effective after October 1, 2016)

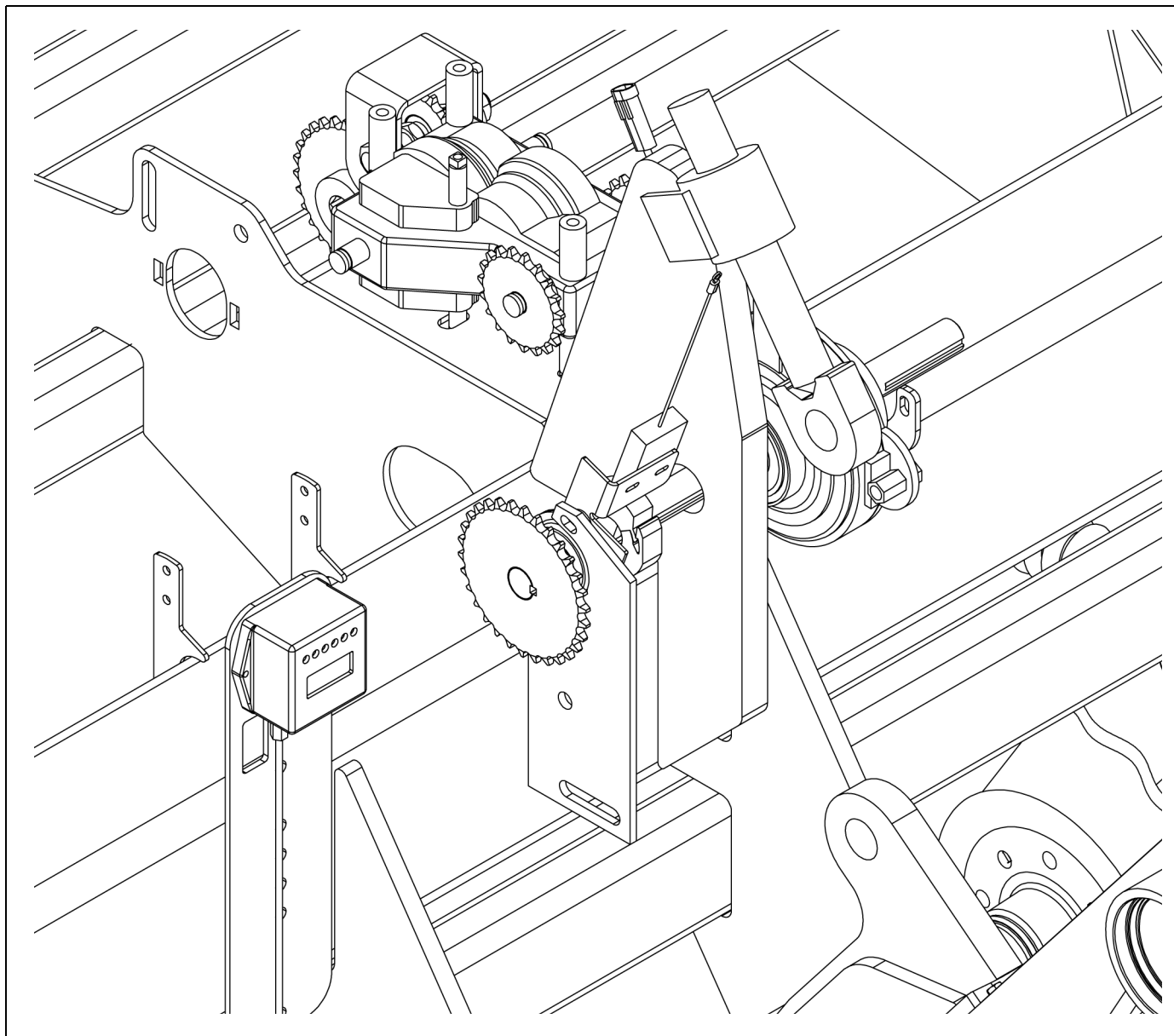


Figure 16
2N-2410, 2N3010, 2N-2420, and 2N-3020
Kit: 197-187A

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**Acre Meter Location 2N-2410, 2N-3010, 2N-2420, and 2N-3020
(Effective before October 1, 2016)**

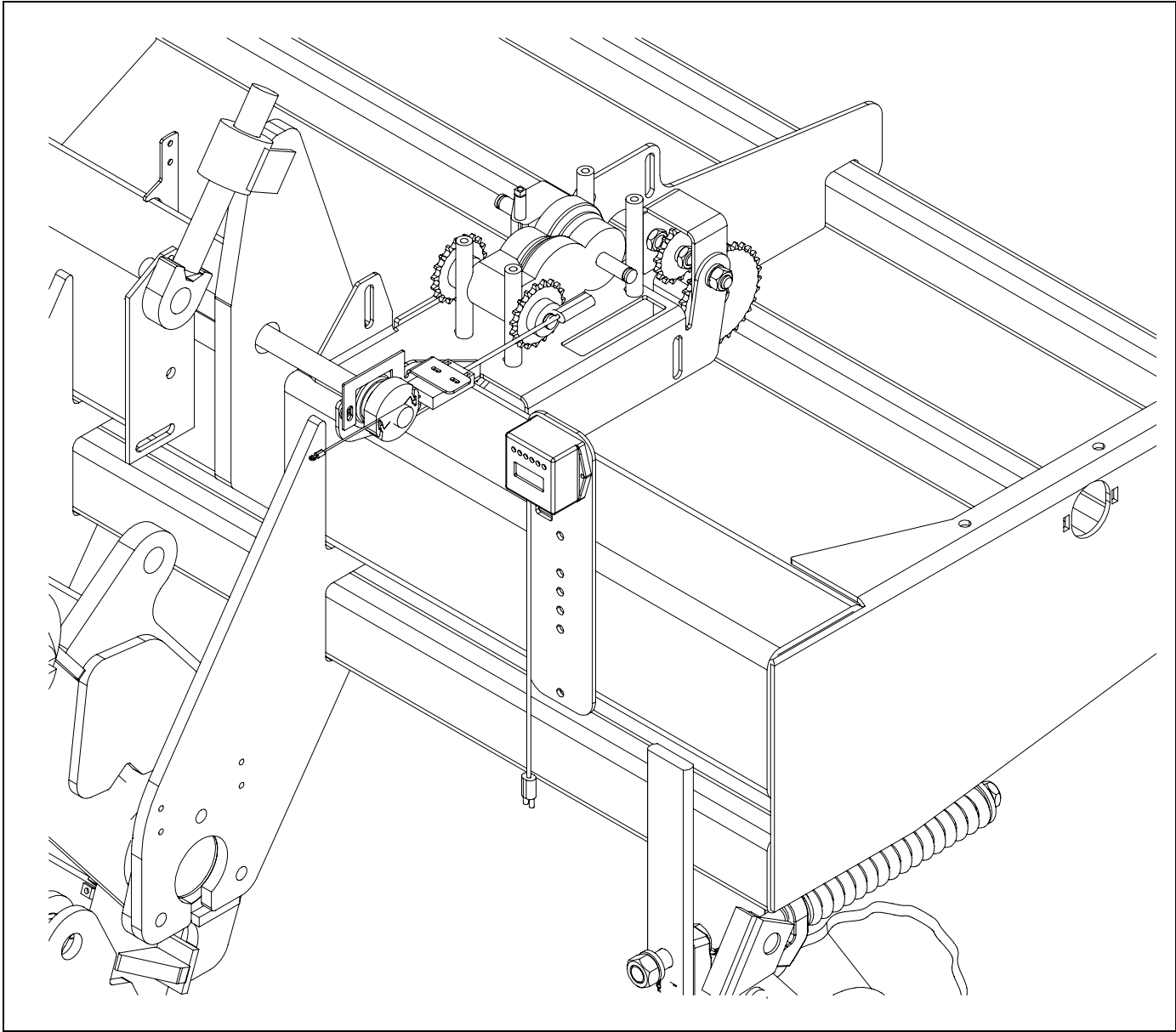


Figure 17
2N-2410, 2N3010, 2N-2420, and 2N-3020
Kit: 197-187A

36324

Acre Meter Location 606NT

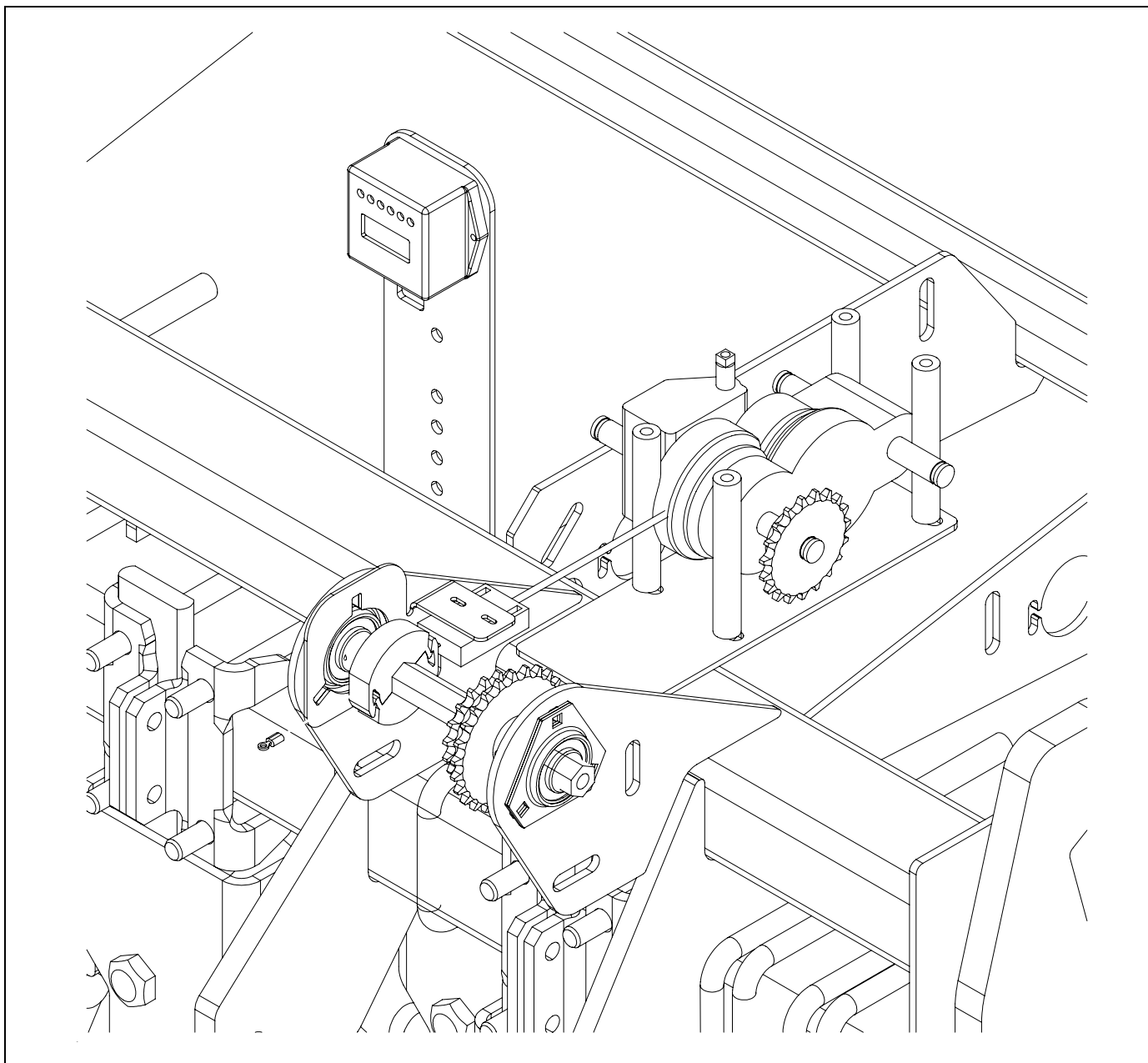


Figure 18
606NT
Kit: 152-327A

36325

Acre Meter Location 706NT (LH)

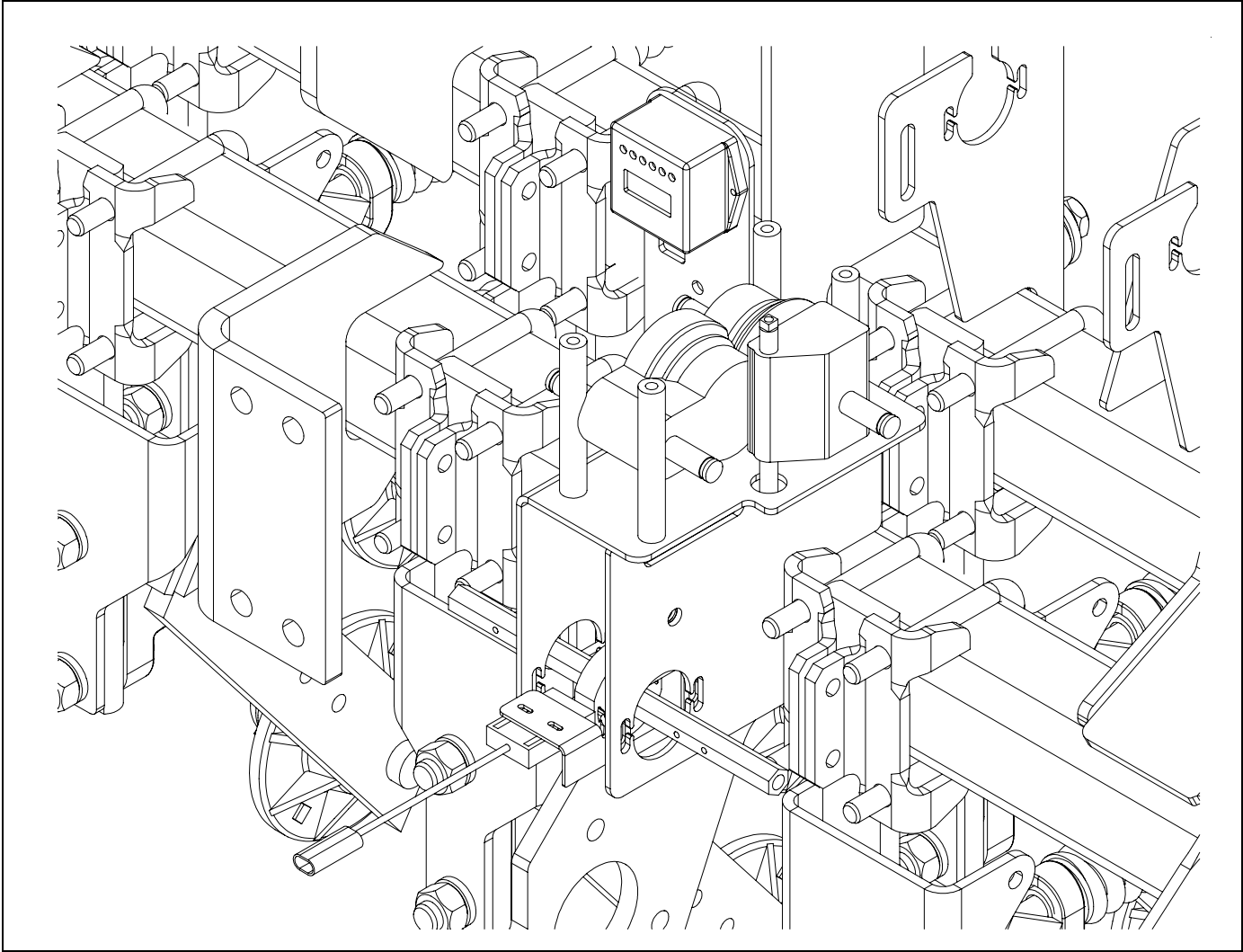


Figure 19
706NT
Kit: 152-326A

36330

Acre Meter Location 706NT(RH) Dual Seed/Native Grass

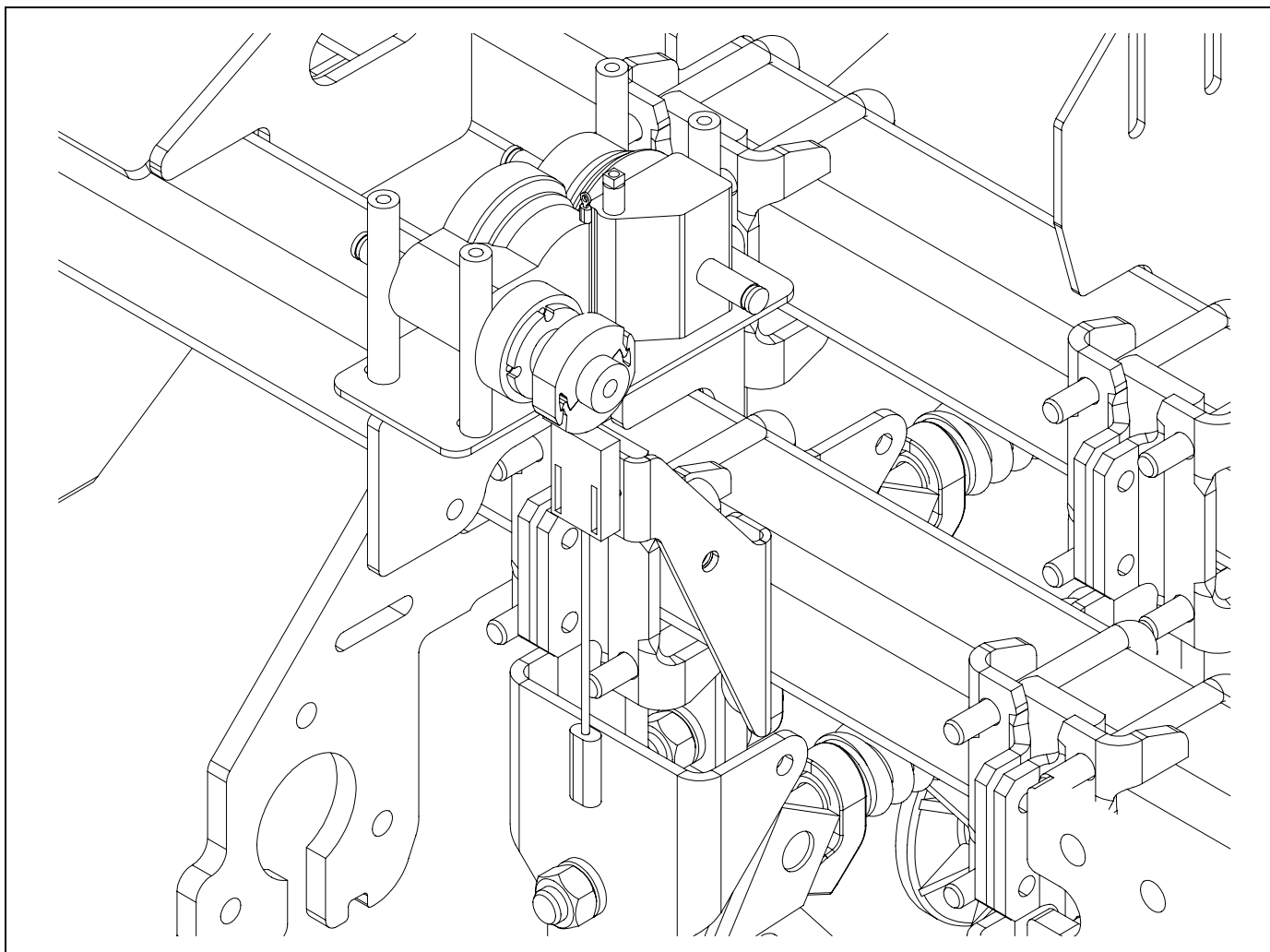


Figure 20
706NT
Kit: 152-328A

36331

Acre Meter Location 1006NT (LH)

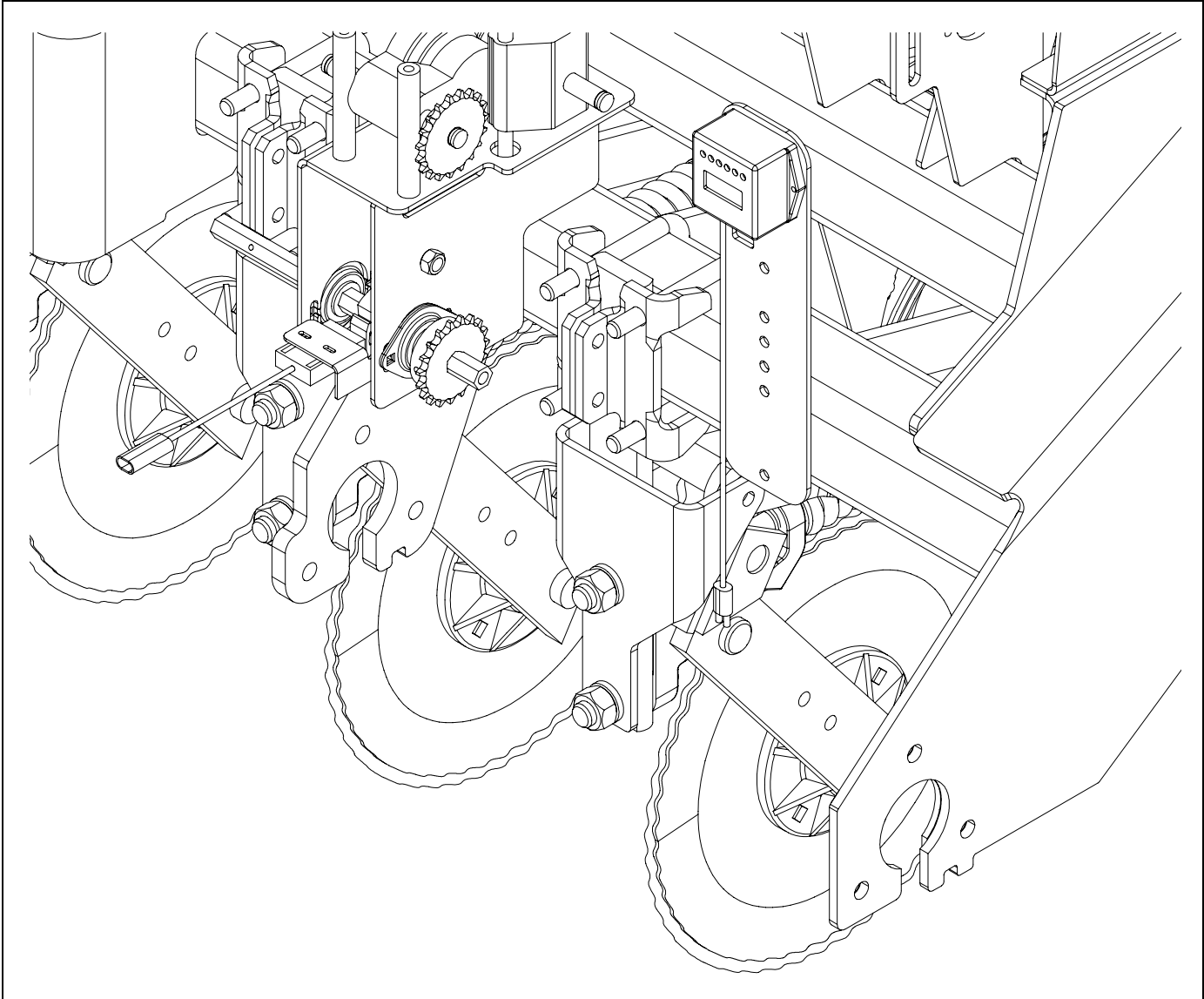


Figure 21
1006NT (LH)
Kit: 152-326A

36332

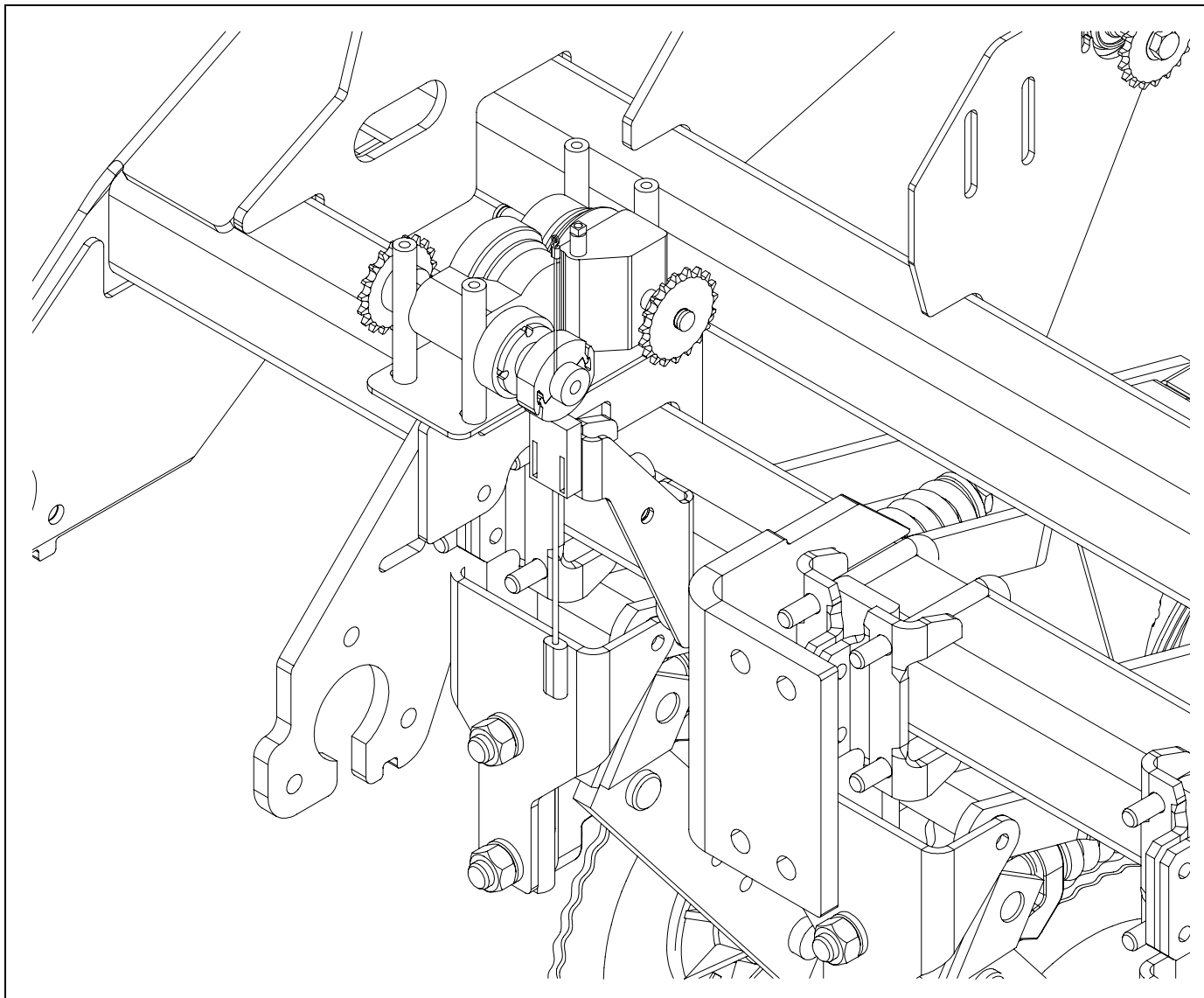
Acre Meter Location 1006NT (RH)

Figure 22
1006NT (RH)
Kit: 152-326A

36333

Acre Meter Location 3P500, 3P500 (V), 3P600, and 3P606NT

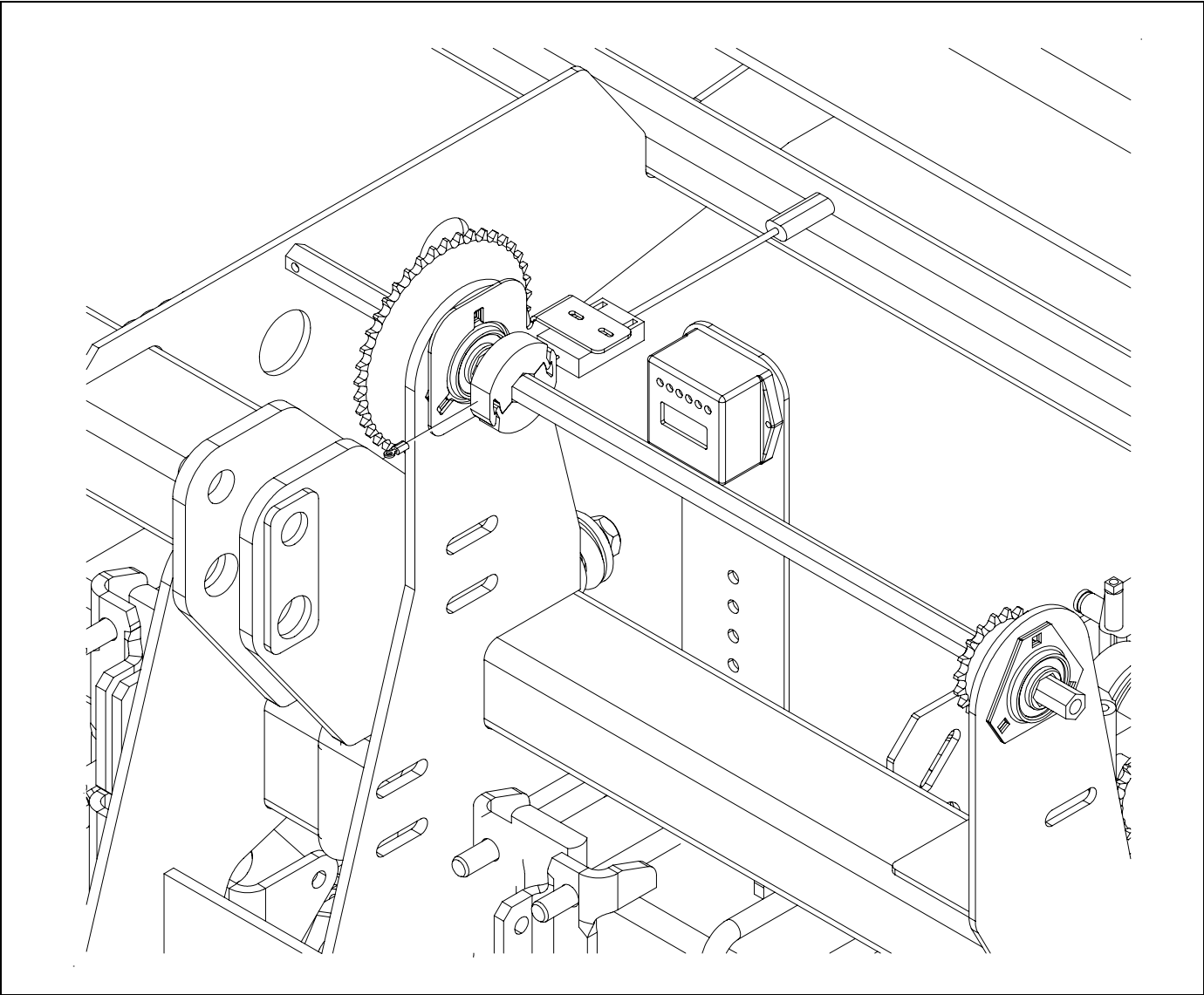


Figure 23
3P500, 3P500 (V), 3P600, and 3P606NT
Kit: 152-327A

36326

Acre Meter Location 3P806NT

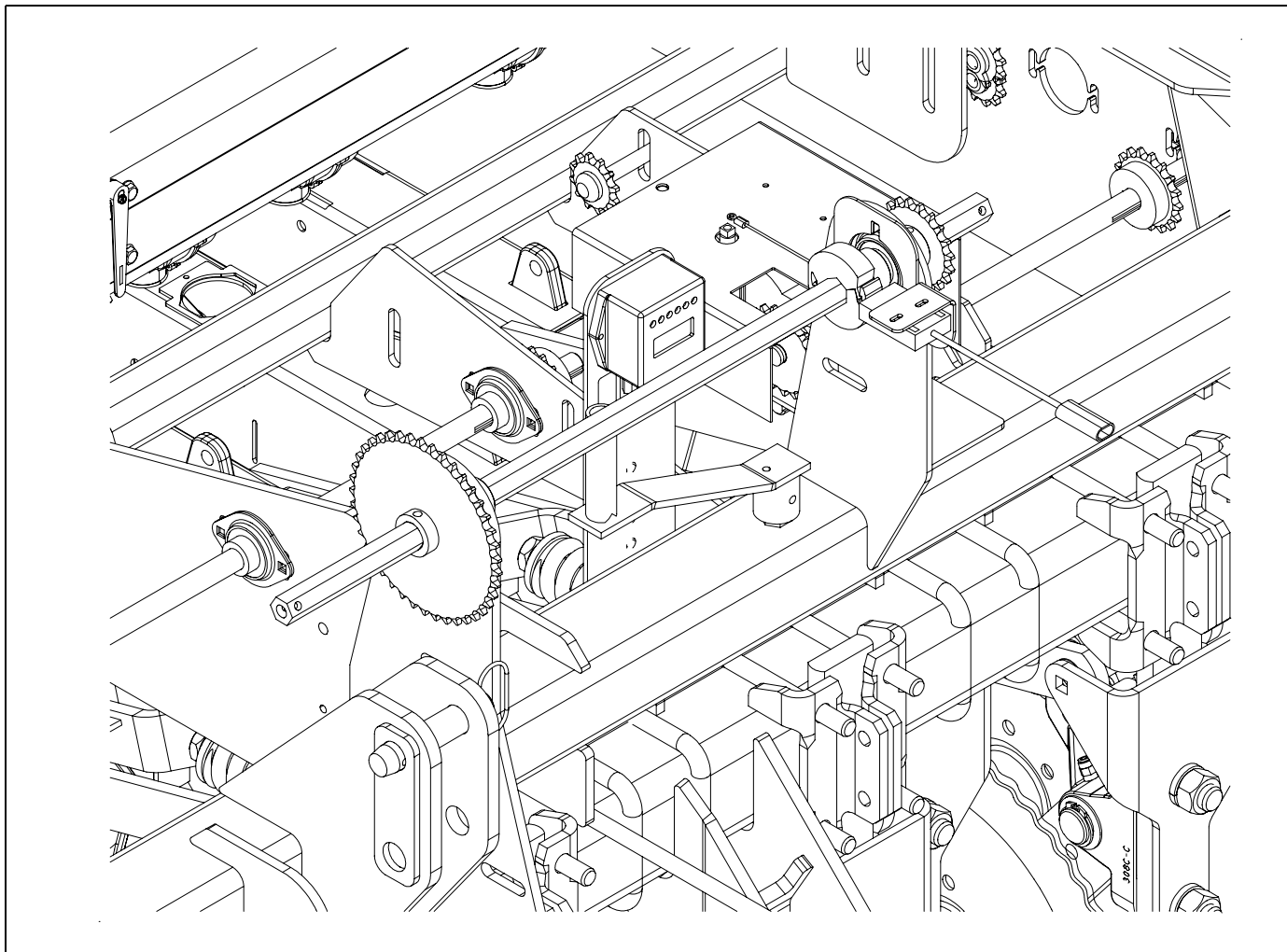


Figure 24
3P806NT
Kit: 152-327A

36327

**Acre Meter Location 3P1006NT (RH) Dual Seed or Native Grass
also for older drills with two independent drive shafts**

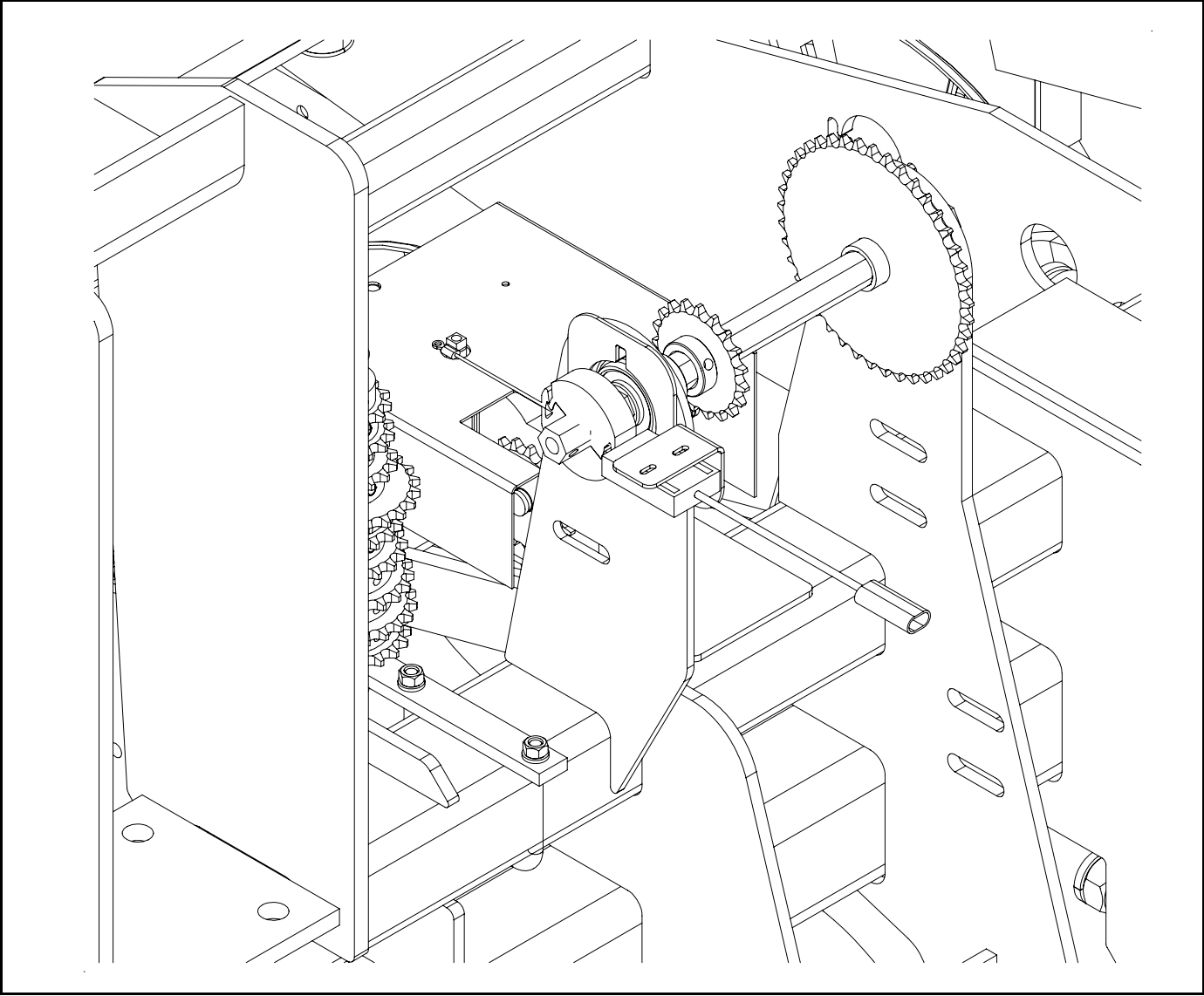


Figure 25
3P1006NT (right hand)
Kit: 152-329A

36328

Acre Meter Location 3P1006NT (LH)

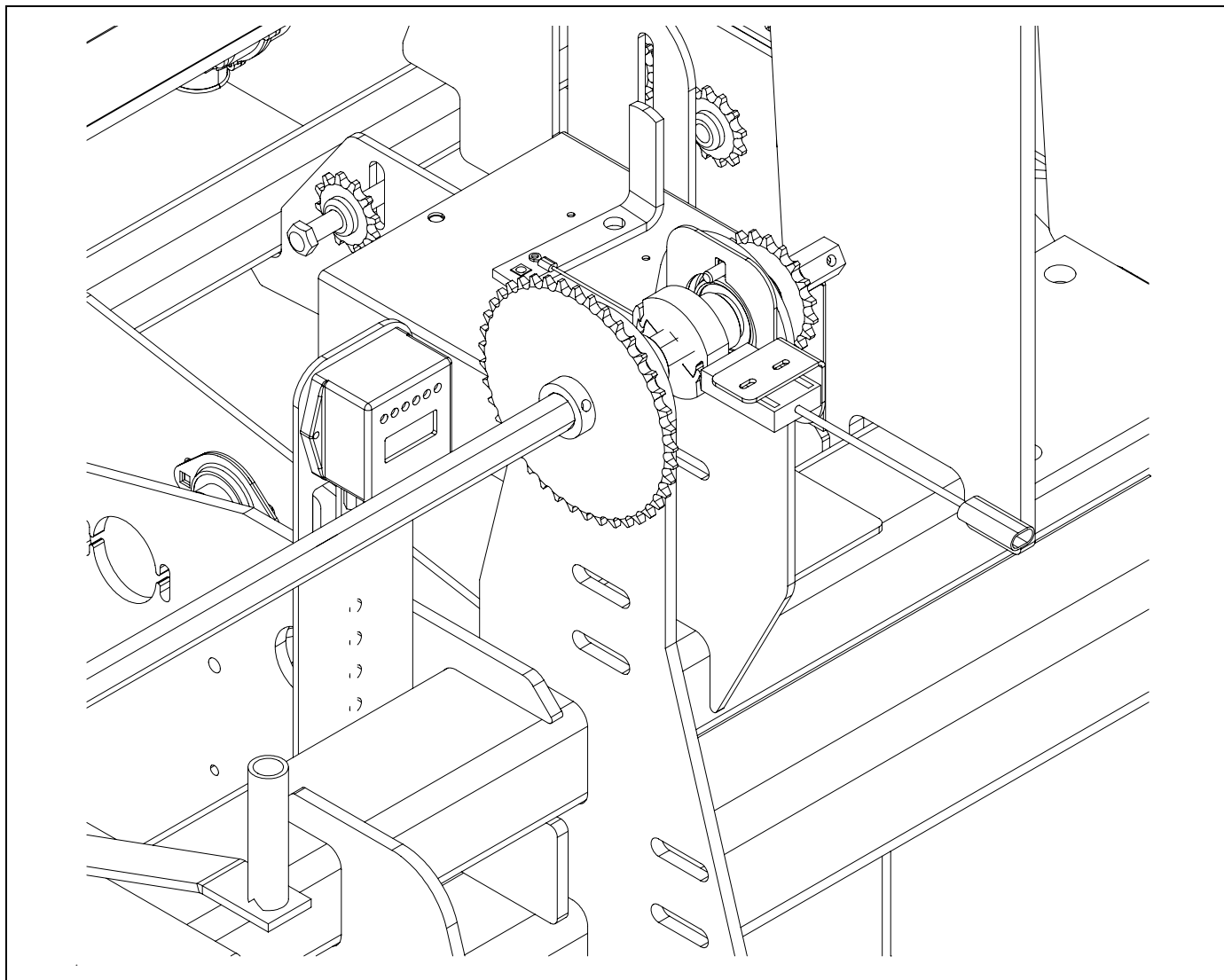


Figure 26
3P1006NT (left hand)
Kit: 152-327A

36329

Acre Meter Location 800 and 1300

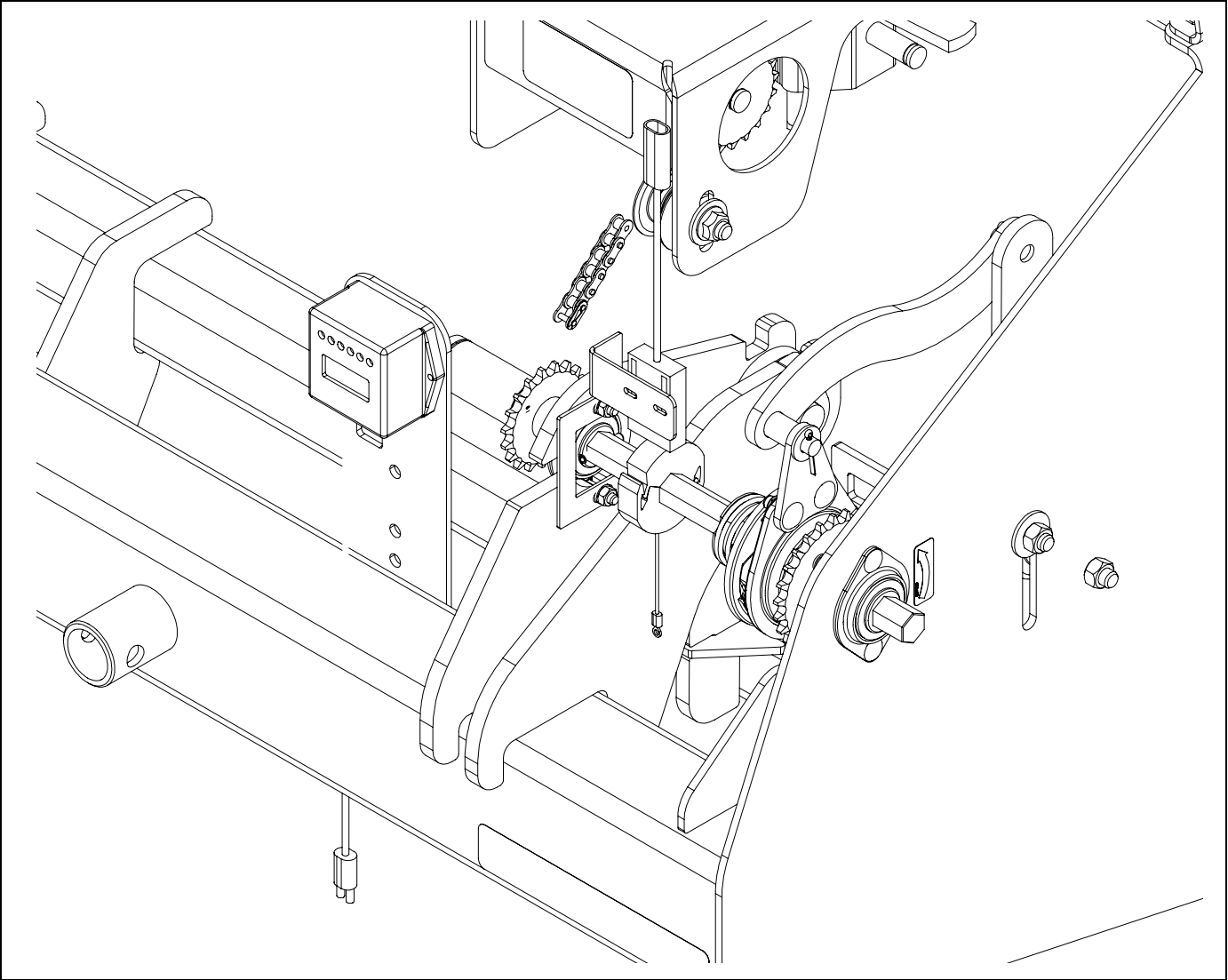


Figure 27
800 and 1300
Kit: 175-311A

36334

Acre Meter Location 3PT 1200, 1500, 2000, and 2400

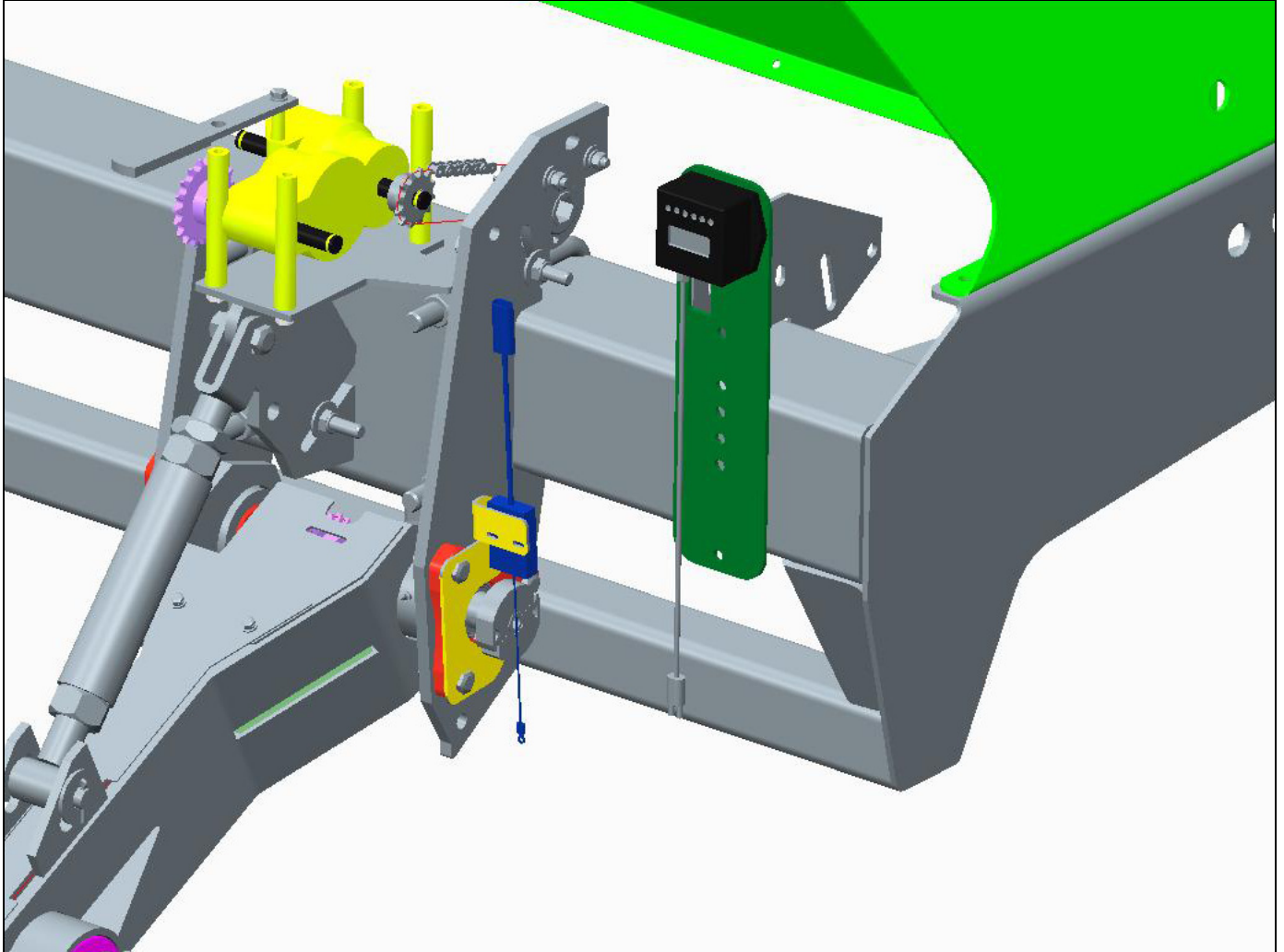


Figure 28
3PT 1200, 1500, 2000, and 2400
Kit: 118-260A

36348

This diagram shows an exploded view of a mechanical assembly. A central horizontal shaft is the primary component. To its left, a motor or actuator is shown with a green outline, connected to a pulley system. A green bracket is positioned to hold the shaft in place. To the right of the shaft, a green rectangular block is shown, which appears to be a guide or support. Further right, a red bracket is shown, likely for mounting the assembly to a frame. The background shows a perspective view of a metal frame with various mounting points and bolts.

TP-75087

Acre Meter Location 3PT 1200, 1500, and 2000 (Optional)

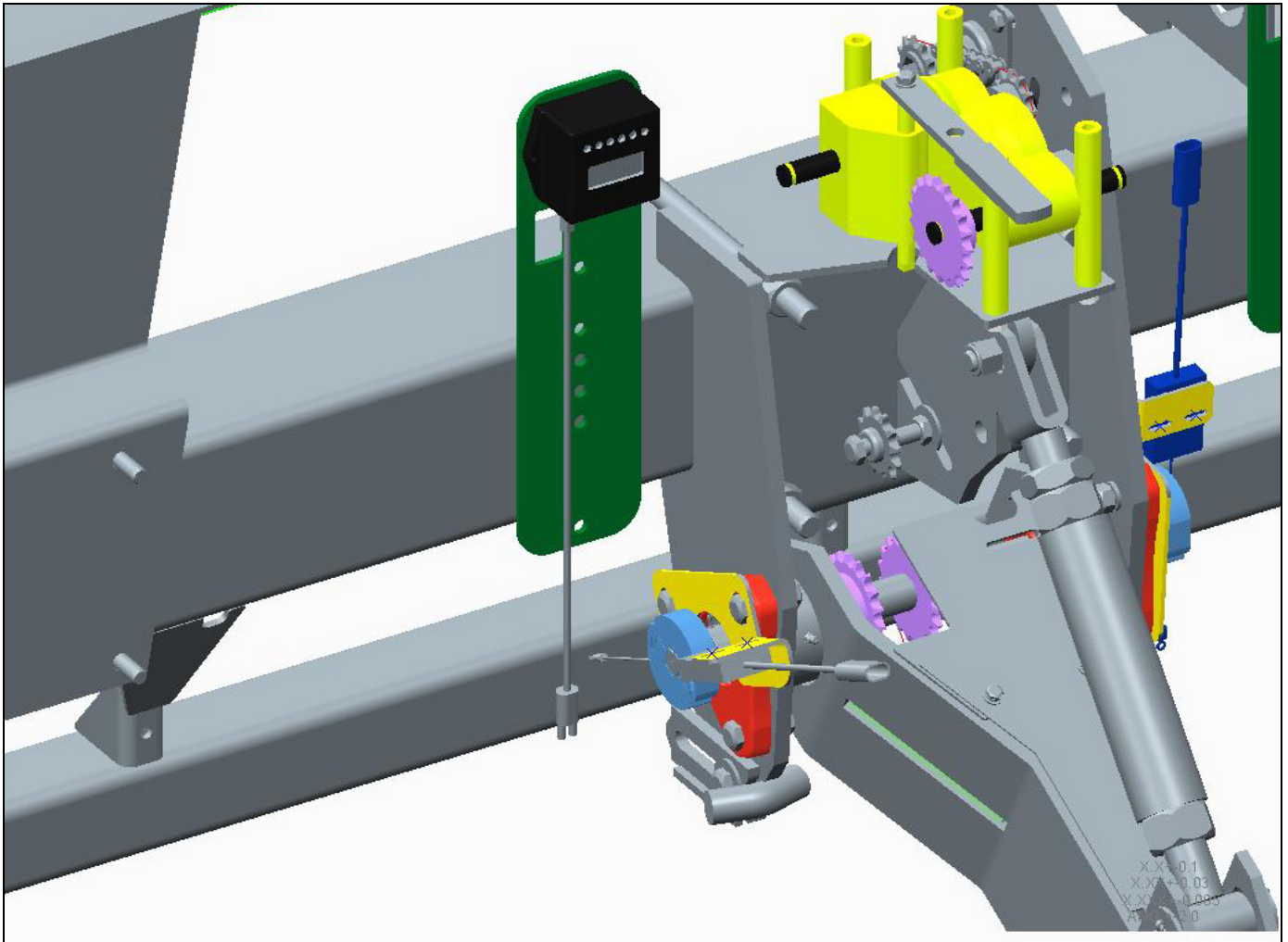


Figure 30
3PT 1200, 1500, and 2000
Kit: 118-260A

36349

Acre Meter Location 1206NT (Optional)

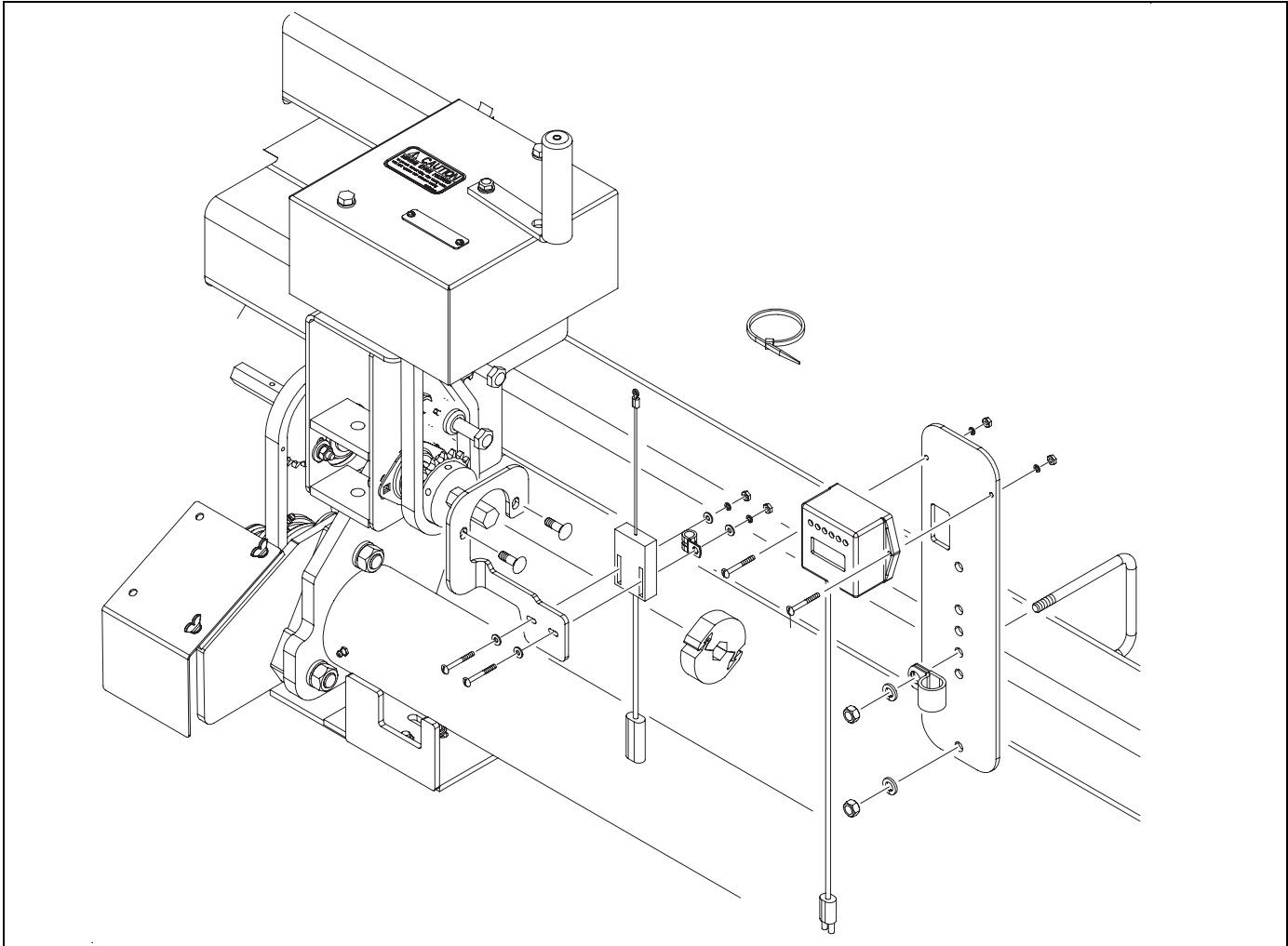


Figure 31
1206NT
Kit: 152-337A

38136

Acre Meter Location 1205NT (Optional)

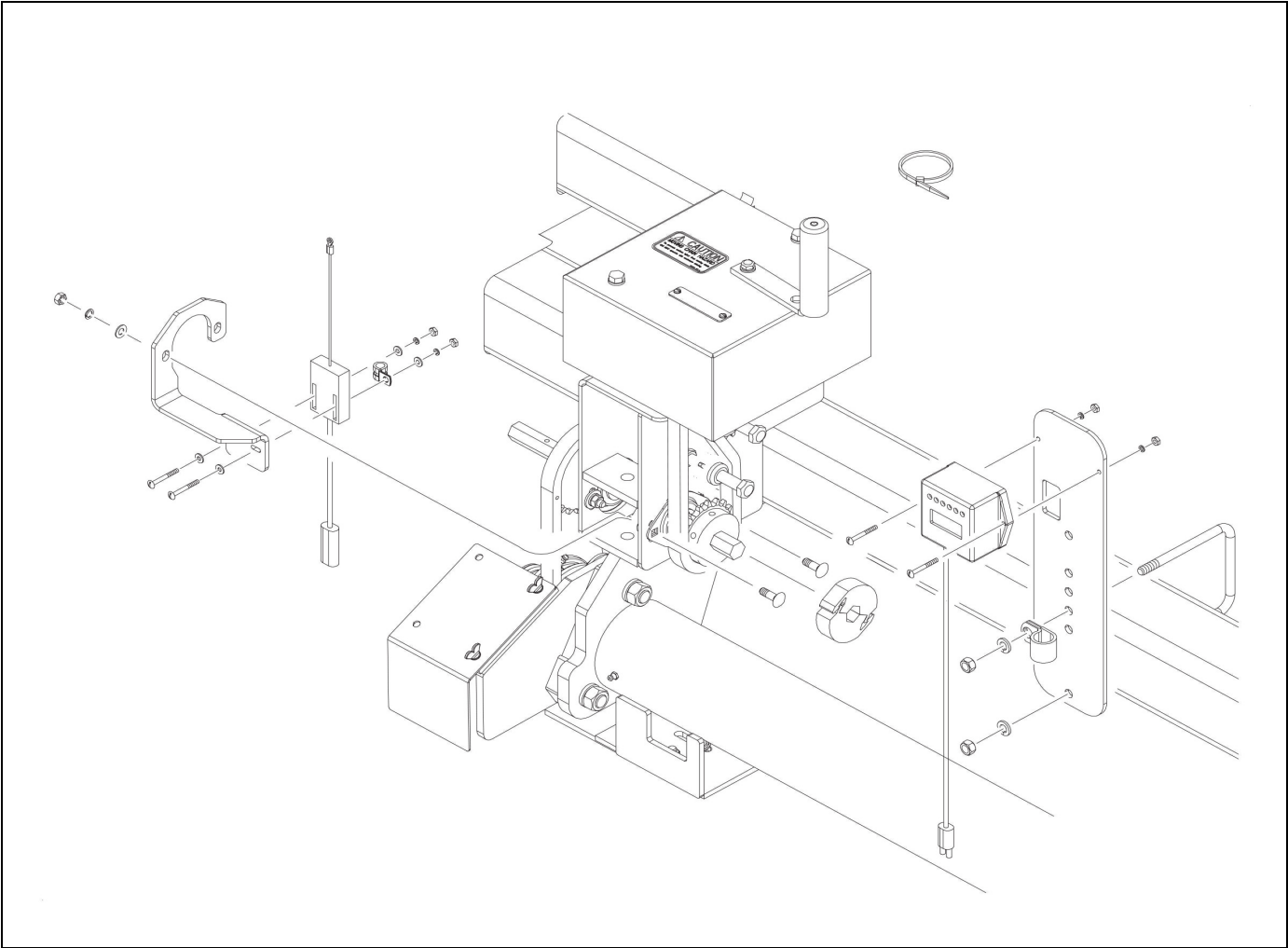


Figure 32
1205NT
Kit: 152-351A

38121

Acre Meter Location NTS2507, NTS2509, and NTS2511 (Optional)

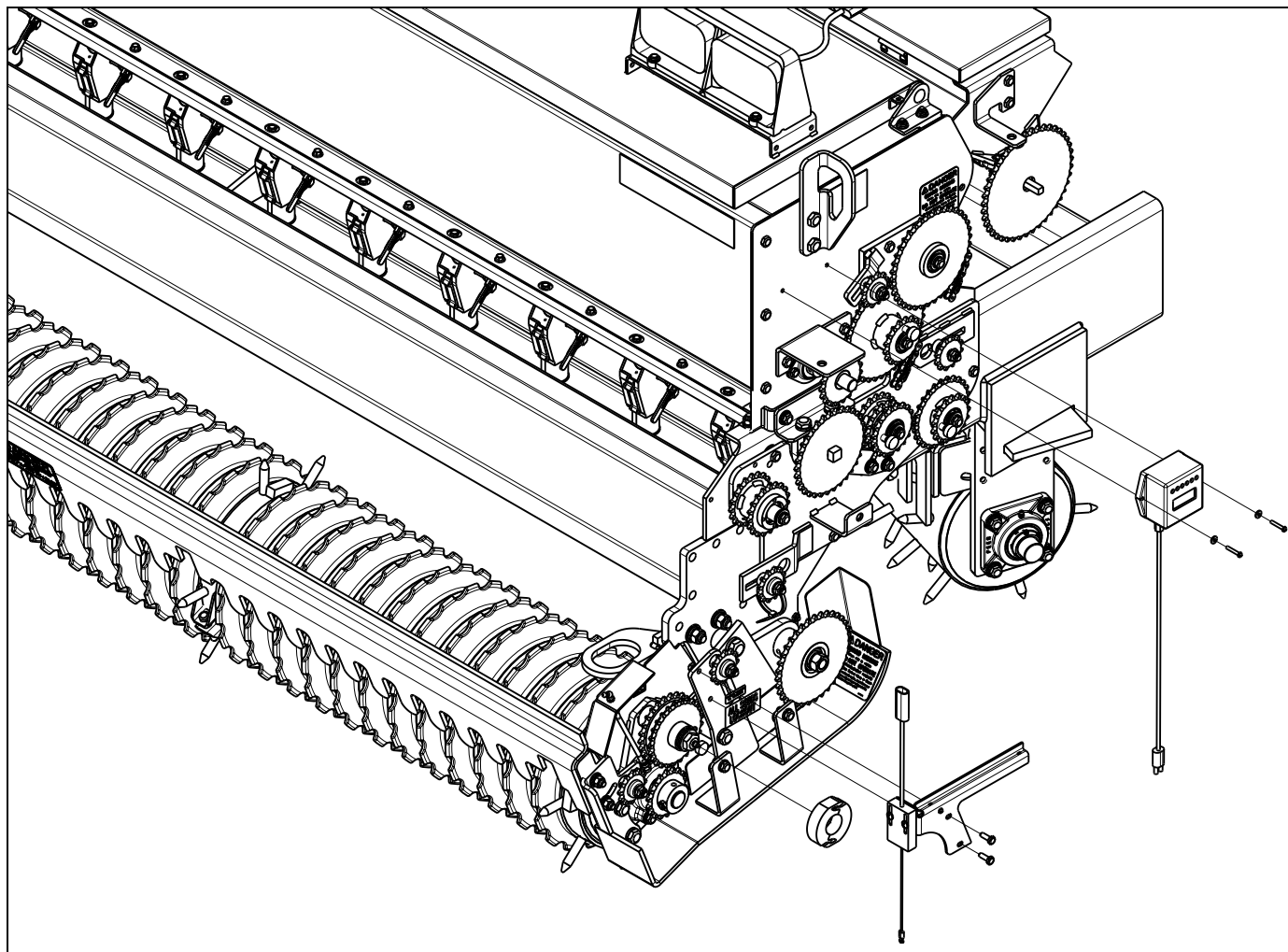


Figure 33
NTS25 Series
Kit: 313-854A

tp-70231

Acrometer Kits

Part Lists

The part call-out numbers in this list match all Figures in these installation instructions. Part descriptions match those in your updated Parts Manual. Quantities are units ("ea").

Kit: 194-073A Models: 3S-3000, 3S-4000, and 3S-5000 ELECTRONIC ACREMETER

Callout	Part Number	Part Description
11	194-073A	MIN-TILL ELECTRONIC ACRE METER
12	194-074M	MANUAL ELECTRONIC ACRE METER
13	168-491D	ACREMETER SWITCH MOUNT
14	168-492D	ACREMETER MOUNT
15	800-269C	CABLE TIE 33LG
16	801-067C	SCREW RD HD 8-32 X 1 1/2LG PLT
17	802-826C	HHCS #10-24X1 1/4 PLT GR5
18	803-001C	NUT HEX 10-24 PLT
19	803-014C	NUT HEX 3/8-16 PLT
20	803-064C	NUT HEX 8-32
21	804-013C	WASHER LOCK SPRING 3/8 PLT
22	804-036C	WASHER FLAT 5/16 SAE PLT
23	804-043C	WASHER LOCK #8
24	804-054C	WASHER LOCK #10
25	804-088C	WASHER FLAT #8 SAE PLT
26	806-051C	U-BOLT 3/8-16 X 6 1/32 X 7
27	823-423C	ELECTRONIC ACRE METER
28	540002-1	7/8 HEX SNAP-ON ACTUATOR
64	152-613D	ACREMETER COVER
65	823-432C	HARNESS EXT. 15' 2 PIN WP

Kit: 194-311A Models: 2S-2600
ELECTRONIC ACREMETER

Callout	Part Number	Part Description
11	194-311A	2600 ELECTRONIC ACRE METER
12	194-074M	MANUAL ELECTRONIC ACRE METER
13	168-491D	ACREMETER SWITCH MOUNT
14	168-492D	ACREMETER MOUNT
15	800-269C	CABLE TIE 33LG
16	801-067C	SCREW RD HD 8-32 X 1 1/2LG PLT
17	802-826C	HHCS #10-24X1 1/4 PLT GR5
18	803-001C	NUT HEX 10-24 PLT
19	803-014C	NUT HEX 3/8-16 PLT
20	803-064C	NUT HEX 8-32
21	804-013C	WASHER LOCK SPRING 3/8 PLT
22	804-036C	WASHER FLAT 5/16 SAE PLT
23	804-043C	WASHER LOCK #8
24	804-054C	WASHER LOCK #10
25	804-088C	WASHER FLAT #8 SAE PLT
26	806-051C	U-BOLT 3/8-16 X 6 1/32 X 7
27	823-423C	ELECTRONIC ACRE METER
28	540002-1	7/8 HEX SNAP-ON ACTUATOR
64	152-613D	ACREMETER COVER

**Kit: 197-187A Models: 2N-2410, 2N-3010, 2N-2420, and 2N-3020
ELECTRONIC ACREMETER**

Callout	Part Number	Part Description
12	194-074M	MANUAL ELECTRONIC ACRE METER
13	168-491D	ACREMETER SWITCH MOUNT
14	168-492D	ACREMETER MOUNT
15	800-269C	CABLE TIE 33LG
16	801-067C	SCREW RD HD 8-32 X 1 1/2LG
19	803-014C	NUT HEX 3/8-16 PLT
20	803-064C	NUT HEX 8-32
21	804-013C	WASHER LOCK SPRING 3/8 PLT
22	804-036C	WASHER FLAT 5/16 SAE PLT
23	804-043C	WASHER LOCK #8
25	804-088C	WASHER FLAT #8 SAE PLT
27	823-423C	ELECTRONIC ACRE METER
31	540003-1	1" RD SNAP-ON ACTUATOR
32	806-266C	U-BOLT 3/8-16 X 8 1/32 X 7
64	152-613D	ACREMETER COVER

Kit: 152-326A Models: 706NT and 1006NT ELECTRONIC ACREMETER

Callout	Part Number	Part Description
12	194-074M	MANUAL ELECTRONIC ACRE METER
14	168-492D	ACREMETER MOUNT
16	801-067C	SCREW RD HD 8-32 X 1 1/2LG
20	803-064C	NUT HEX 8-32
21	804-013C	WASHER LOCK SPRING 3/8 PLT
22	804-036C	WASHER FLAT 5/16 SAE PLT
23	804-043C	WASHER LOCK #8
25	804-088C	WASHER FLAT #8 SAE PLT
27	823-423C	ELECTRONIC ACRE METER
33	152-599D	ACREMETER SENSOR MOUNT 2.81
34	540005-1	3/4 HEX SNAP-ON ACTUATOR
35	800-377C	HOSE CLIP 13/16 ID 1/2 MOUNT
36	803-014C	NUT HEX 3/8-16 PLT
37	803-020C	NUT HEX 1/2-13 PLT
38	804-015C	WASHER LOCK SPRING 1/2 PLT
39	806-263C	U-BOLT 3/8-16 X 4 1/32 X 5
64	152-613D	ACREMETER COVER

Kit: 152-327A Models: 606NT, 3P606NT, 3P806NT, 3P1006NT, 3P500, 3P500V, and 3P600

Callout	Part Number	Part Description
12	194-074M	MANUAL ELECTRONIC ACRE METER
14	168-492D	ACREMETER MOUNT
15	800-269C	CABLE TIE 33LG
16	801-067C	SCREW RD HD 8-32 X 1 1/2LG PLT
19	803-014C	NUT HEX 3/8-16 PLT
20	803-064C	NUT HEX 8-32
21	804-013C	WASHER LOCK SPRING 3/8 PLT
22	804-036C	WASHER FLAT 5/16 SAE PLT
23	804-043C	WASHER LOCK #8
25	804-088C	WASHER FLAT #8 SAE PLT
27	823-423C	3P LOUP ACREMETER
43	540002-1	7/8 HEX SNAP-ON ACTUATOR
44	152-601D	7/8 HEX SENSOR MOUNT
45	806-265C	U-BOLT 3/8-16 X 3 1/32 X 5
64	152-613D	ACREMETER COVER

Kit: 152-329A Model: 3P1006NT DUAL SEED OR NATIVE GRASS ELECTRONIC ACREMETER
(also earlier model drills with two independent drive shafts)

Callout	Part Number	Part Description
12	194-074M	MANUAL ELECTRONIC ACRE METER
15	800-269C	CABLE TIE 33LG
16	801-067C	SCREW RD HD 8-32 X 1 1/2LG
20	803-064C	NUT HEX 8-32
22	804-036C	WASHER FLAT 5/16 SAE PLT
23	804-043C	WASHER LOCK #8
25	804-088C	WASHER FLAT #8 SAE PLT
27	823-423C	3P LOUP ACREMETER
28	221398	SWITCH
43	540002-1	7/8 HEX SNAP-ON ACTUATOR
44	152-601D	7/8 HEX SENSOR MOUNT
62	823-434C	HARNESS EXT. 10' 2 PIN WP
63	152-329A	3P DUAL SEED/NG ACREMETER

Kit: 175-311A Models: 800 and 1300 ELECTRONIC ACREMETER

Callout	Part Number	Part Description
12	194-074M	MANUAL ELECTRONIC ACRE METER
14	168-492D	ACREMETER MOUNT
15	800-269C	CABLE TIE 33LG
16	801-067C	SCREW RD HD 8-32 X 1 1/2LG PLT
19	803-014C	NUT HEX 3/8-16 PLT
20	803-064C	NUT HEX 8-32
21	804-013C	WASHER LOCK SPRING 3/8 PLT
22	804-036C	WASHER FLAT 5/16 SAE PLT
23	804-043C	WASHER LOCK #8
25	804-088C	WASHER FLAT #8 SAE PLT
27	823-423C	3P LOUP ACREMETER
43	540002-1	7/8 HEX SNAP-ON ACTUATOR
46	175-489D	EW SENSOR MOUNT
47	806-264C	U-BOLT 3/8-16 X 5 1/32 X 5
64	152-613D	ACREMETER COVER

Kit: 118-260A Models: 3PT 1200,1210,1220/3-PT 1500,1510, 1520/3-PT 2000, 2010, and 2020/3PT 2400

Callout	Part Number	Part Description
12	194-074M	MANUAL ELECTRONIC ACRE METER
14	168-492D	ACREMETER MOUNT
16	801-067C	SCREW RD HD 8-32 X 1 1/2LG PLT
19	803-014C	NUT HEX 3/8-16 PLT
20	803-064C	NUT HEX 8-32
21	804-013C	WASHER LOCK SPRING 3/8 PLT
22	804-036C	WASHER FLAT 5/16 SAE PLT
23	804-043C	WASHER LOCK #8
25	804-088C	WASHER FLAT #8 SAE PLT
26	806-051C	U-BOLT 3/8-16 X 6 1/32 X 7
27	823-423C	ELECTRONIC ACRE METER
40	118-071D	3PT ACREMETER SWITCH MOUNT
41	540005-1	3/4 HEX SNAP-ON ACTUATOR
42	802-128C	HHCS 1/2-13X2 GR5

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**Kit: 152-328A Models: 706NT and 1006NT DUAL SEED OR NATIVE GRASS
ELECTRONIC ACREMETER**

Callout	Part Number	Part Description
12	194-074M	MANUAL ELECTRONIC ACRE METER
15	800-269C	CABLE TIE 33LG
16	801-067C	SCREW RD HD 8-32 X 1 1/2LG
19	803-014C	NUT HEX 3/8-16 PLT
20	803-064C	NUT HEX 8-32
21	804-013C	WASHER LOCK SPRING 3/8 PLT
23	804-043C	WASHER LOCK #8
25	804-088C	WASHER FLAT #8 SAE PLT
27	823-423C	3P LOUP ACREMETER
39	806-263C	U-BOLT 3/8-16 X 4 1/32 X 5
48	152-600D	NG/DUAL SENSOR MOUNT
49	197-164H	ACREMETER HUB WELDMENT
50	221398	SWITCH
51	540004-1	1 1/4 RD SNAP-ON ACTUATOR
52	800-141C	SNAP RING EXT F/PEERLESS G.
53	800-377C	HOSE CLIP 13/16 ID 1/2 MOUNT
54	802-078C	HHCS 1/4-20X5/8 GR5
55	802-258C	HHCS 1/2-13X1 GR5
56	803-020C	NUT HEX 1/2-13 PLT
57	804-007C	WASHER FLAT 1/4 SAE PLT
58	804-015C	WASHER LOCK SPRING 1/2 PLT
59	823-434C	HARNESS EXT. 10' 2 PIN WP
60	890-849C	SPLINED ACREMETER MOUNT
61	152-328A	NO-TILL DUAL SEED/NG ACREME
64	152-613D	ACREMETER COVER

Kit: 152-337A Model: 1206NT ELECTRONIC ACREMETER

Callout	Part Number	Part Description
1	152-605D	1206NT ACRE SENSOR MOUNT
2	168-492D	ACREMETER MOUNT
3	540005-1	3/4 HEX SNAP-ON ACTUATOR
4	800-112C	CABLE TIE .19 X .25 1.75D 50LB
5	800-167C	HOSE CLAMP 3/8 ID
6	800-377C	HOSE CLIP 13/16 ID 1/2 MOUNT
7	801-067C	SCREW RD HD 8-32 X 1 1/2LG PLT
8	803-014C	NUT HEX 3/8-16 PLT
9	803-064C	NUT HEX 8-32
10	804-013C	WASHER LOCK SPRING 3/8 PLT
11	804-043C	WASHER LOCK #8
12	8040-088C	WASHER FLAT #8 SAE PLT
13	806-263C	U-BOLT 3/8-16 X 4 1/32 X 5
14	823-423C	ELECTRONIC ACRE METER
64	152-613D	ACREMETER COVER

Kit: 152-351A Model: 1205NT ELECTRONIC ACREMETER

Callout	Part Number	Part Description
1	152-604D	1206NT LOWER HEX JACK SHAFT
2	152-605D	1206NT ACRE SENSOR MOUNT
3	168-492D	ACREMETER MOUNT
4	540005-1	3/4 HEX SNAP-ON ACTUATOR
5	800-112C	CABLE TIE .19 X .25 1.75D 50LB
6	800-167C	HOSE CLAMP 3/8 ID
7	800-377C	HOSE CLIP 13/16 ID 1/2 MOUNT
8	801-067C	SCREW RD HD 8-32 X 1 1/2LG PLT
9	803-014C	NUT HEX 3/8-16 PLT
10	803-064C	NUT HEX 8-32
11	804-013C	WASHER LOCK SPRING 3/8 PLT
12	804-043C	WASHER LOCK #8
13	804-088C	WASHER FLAT #8 SAE PLT
14	806-263C	U-BOLT 3/8-16 X 4 1/32 X 5
15	823-423C	ELECTRONIC ACRE METER

Kit: 318-854A Models: NTS2507, NTS2509, and NTS2511 ELECTRONIC ACREMETER

Item	Part Number	Part Description
N/A*	22142	CONSOLE FOR ACRE METER 823-423
N/A*	221398A	ACRE COUNTER PICKUP
N/A*	329-233D	ACRE METER READER MNT NTS
N/A*	540004-1	1 1/4 RD SNAP-ON ACTUATOR
N/A*	800-112C	CABLE TIE.19X7.25 1.75D 50LB
N/A*	801-016C	SCREW RD HD 8-32 X 1/2 LG PLT
N/A*	801-167C	SCREW RD HD 8-32 X 1 1/2LG PLT
N/A*	802-004C	HHCS 1/4-20X3/4 GR5
N/A*	803-006C	NUT HEX 1/4-20 PLT
N/A*	803-064C	NUT HEX 8-32
N/A*	804-006C	WASHER LOCK SPRING 1/4 PLT
N/A*	804-043C	WASHER LOCK #8
N/A*	804-088C	WASHER FLAT #8 SAE PLT

* Refer to No-Till Seeder Parts Manual for illustration and item numbers.

Abbreviations

EA	Each
GR	Grade 5
HD	Head
HHCS	Hex Head Cap Screw
LCD	Liquid Crystal Display
LED	Light-Emitting Diode

LG	Long
MIN-TILL	Minimum Tillage
PLT	Plated
RD	Round
SAE	Society of Automotive Engineers (standard)

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