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Tru Count Electric Section Clutch: 12 V Solenoid Replacement

This document describes how to identify the replacement part for a Tru Count branded 12 V solenoid. If a Syncro-Start (now Woodward) solenoid is installed on a Tru Count electric section clutch, the entire clutch must be replaced.

Description

Tru Count has used three different makes of solenoids for electric section clutches:

- The first electric section clutches used a Syncro-Start (now Woodward) brand solenoid. This solenoid was installed separately from the clutch mechanism.

Syncro-Start (now Woodward) solenoids are no longer serviceable. Entire clutch replacement is the only option through Trimble.

- Tru Count manufactured and branded its own electric solenoid for a period of time. These solenoids are pulse width modulation (PWM) and are similar in size and shape to the current Trombetta. They are identified by a white label with the following blue lettering:

TRU COUNT, INC.
12VDC SOLENOID
MODEL A12V15-XX

- The Trombetta brand solenoids have two labels, a yellow warning label, and a smaller white label with black lettering:

TROMBETTA +-
ELECTROMAGNETICS
D610-A15V12
12VDC XXXX



Note: Tru Count and Trombetta brands are compatible with all Tru Count electric section clutches manufactured after 1995.

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Resolution

If a Syncro-Start (now Woodward) solenoid is installed on a Tru Count electric section clutch, there are no replacement solenoids. Therefore, the entire clutch must be replaced.

A Tru Count or Trombetta solenoid can be replaced with either brand.

Note the following:

- Tru Count solenoids work with PWM through a circuit board rather than through a coil. Because of this, there will be a "+" indicator or both a "+" and "-" on the cap of the solenoid near the terminals. When used in conjunction with Ag Leader Insight and Seed Command, **do not** ground the negative terminal to the frame of the planter; the circuit must be completed through to the controller.
- Trombetta brand solenoids use a traditional coil. The bottom of the rubber boot may have threads, but they are not necessary for this application. The boot contacts the catch arm directly just as the Tru Count solenoid. The Trombetta solenoid does not have any markings on the cap and you may connect either terminal to the positive or the ground.

However, if there is a ground strap present from the factory, place the negative wire to that lug. The ground strap was added to alleviate grounding issues and is either fastened to the bushing fastener or the solenoid fastener on the solenoid plate as shown in the image.



Contact

For more information, contact Trimble Technical Support or your local dealer.