

	<h1 style="margin: 0;">Drive Module Kit</h1> <p style="margin: 0;">Models: T300e, T300, T500e, T500, T600e, T600, Speed Scrub 300, Speed Scrub 500</p>		
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**This kit includes the necessary parts to replace a defective Drive Module. Kit installation is required by Tennant True Service or an authorized Tennant service provider.**

**NOTICE:** This kit installation procedure requires access to the Tennant Service Application Software to program the new Drive Module. To access or download the software refer to page 3.

**Authorized Tennant service providers:**  
If the Tennant Service Application Software is currently installed on your computer, ensure latest software version is installed for new firmware updates.

## INSTALLATION INSTRUCTIONS:

**Installation Time:** 1 Hour

**Kit Installation Requirements:** Tennant ServiceLink computer or a computer with Wi-Fi connection to access the Tennant Service Application Software, and USB cable (supplied with kit).

**Computer System Requirements:** Windows® 7 OS, Microsoft .NET Framework 4.5 or later, USB Port.

**Special Tool Required:** T- 25 torque screwdriver

Ref	Part No.	Description	Qty.
1	9014613	Drive Module Kit [T300e/T300/SS300]	1
1	9015776	Drive Module Kit [T500e/T500/SS500]	1
1	9017641	Drive Module Kit [T600e/T600]	1
2	1071235	USB Cable (included with kit)	1

## INSTALL THE NEW DRIVE MODULE:

**FOR SAFETY:** Before servicing machine, stop on level surface, turn off machine, and set parking brake if equipped.

1. Disconnect battery cables from machine.

**⚠ WARNING:** Always disconnect battery cables from machine before working on electrical components.

2. Replace the defective drive module with new drive module. Some machine dis-assembly is required to access the drive module. If necessary, refer to the Service Manual for drive module removal instructions.
3. Program the new drive module as described in the following instructions.

## PROGRAM THE DRIVE MODULE:

See **TENNANT SERVICE APPLICATION SOFTWARE** on page 3 to access or download software.

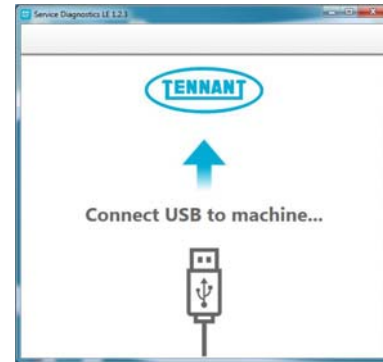
1. Reconnect the battery cables to machine.
2. Start the Service Software Application program “**Service Diagnostics...**” (Figure 1). Refer to Figure 9 for further details.



**Icon on Desktop**

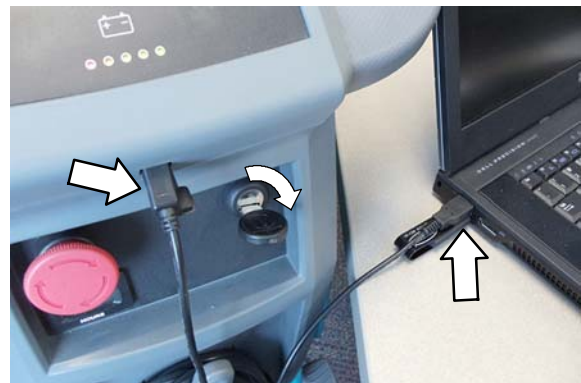
**Fig. 1**

3. After software start up, the following screen will appear (Figure 2).



**Fig. 2**

4. Connect the USB cable, supplied with kit, to computer and to the USB port on machine as shown. Turn the key switch to the on position (Figure 3).



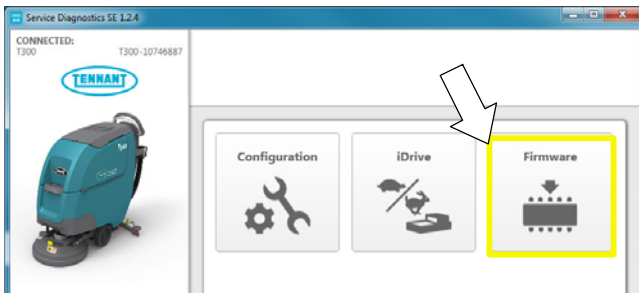
**Fig. 3**

- The application software will then connect to the machine (Figure 4). If the application remains on the "Connecting to Machine..." screen for an extended period, cycle key or reconnect USB cord. If it still fails to connect, restart software or computer.



Fig. 4

- Once connected, the home screen will appear (Figure 5). Before programming the new drive module, first check if any firmware updates are required. The "Firmware" button will be highlighted in yellow if updates are required. Press button to update firmware (Figure 5).



Continue with the firmware update by pressing the yellow "Update" button as shown

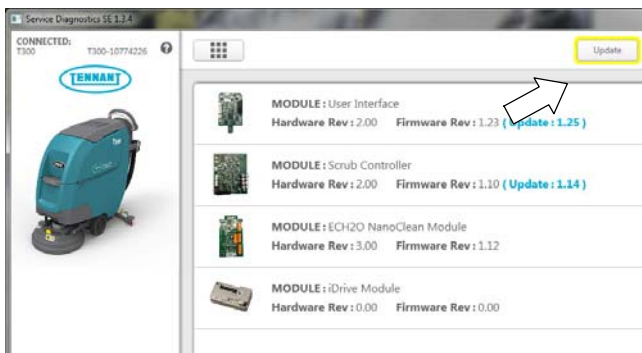


Fig. 5

- Click the "iDrive" button to enter the programming screen (Figure 6).

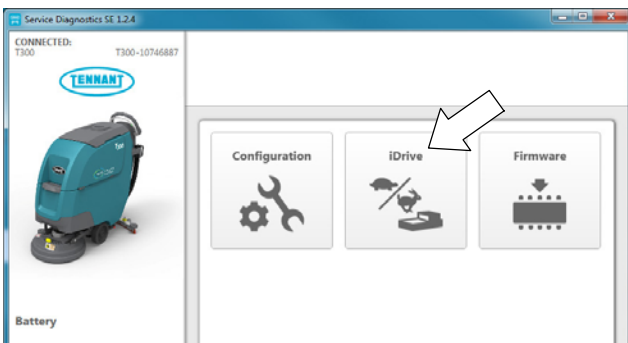


Fig. 6

- T600/e models: If transaxle is equipped with the electronic park lock option, select "Parking Brake". If not equipped, select "Default" (Figure 7). For all other models: Select "Default". Then press "Program" button to program iDrive (Figure 7).

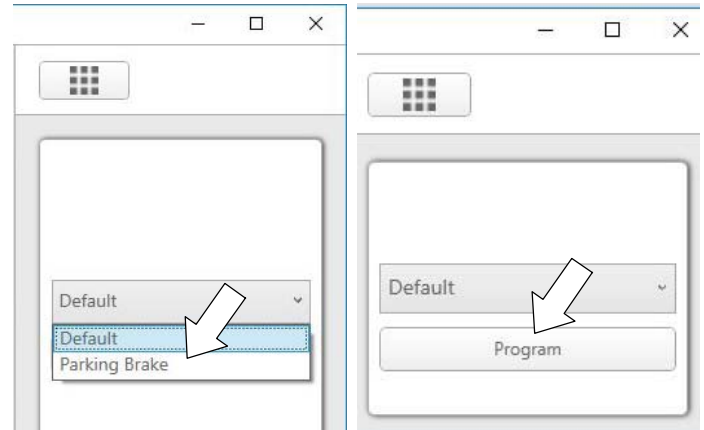


Fig. 7

- Programming may take several seconds to complete (Figure 8). Follow instructions on screen if prompted to cycle key to complete process.

**NOTE:** If the "Writing iDrive Configuration" process gets stuck for an extended period, make sure that:

- iDrive has power applied
- E- Stop button is released / not pressed in
- For model T300 only, does not apply to "e" model or Speed Scrub 300 model:
  - B+ is present at main control board pins J9- 2 (E- Stop input) and J9- 7 (iDrive B+ Detent)
- For models T500 & T600 only, does not apply to "e" models or Speed Scrub 500 model:
  - B+ is present at main control board pins J12- 2 (E- Stop input) and J12- 7 (iDrive B+ Detent)

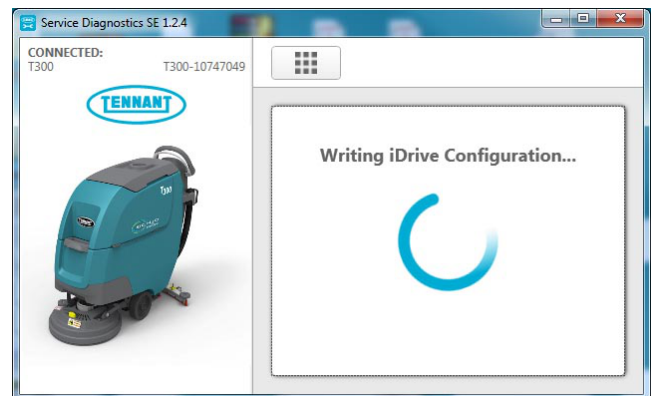


Fig. 8

- Disconnect the USB cable.
- Test machine to ensure the drive module is functioning properly. If a fault code appears check the wire harness connections at drive module and recycle key.

**TENNANT SERVICE APPLICATION SOFTWARE:**

The Tennant Service Application Software is required to program the new drive module. The software can be accessed or downloaded as described below.

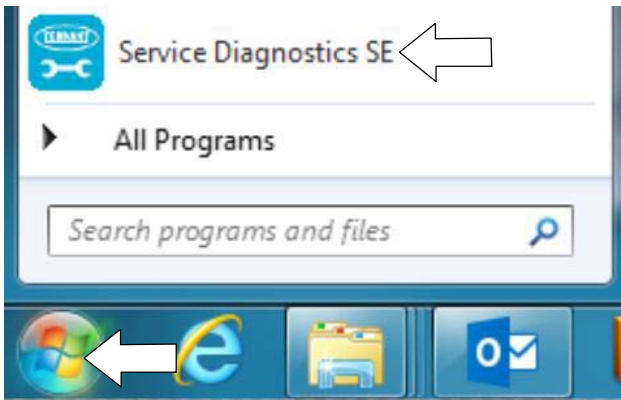
**Tennant True Service with ServiceLink computers:**

The software is pre-installed on your computer as shown below. The software application is titled “Service Diagnostics” (Figure 9).

Icon on Desktop



From Start menu



From Start menu > All Programs > Tennant Company > Tennant Service Diagnostics

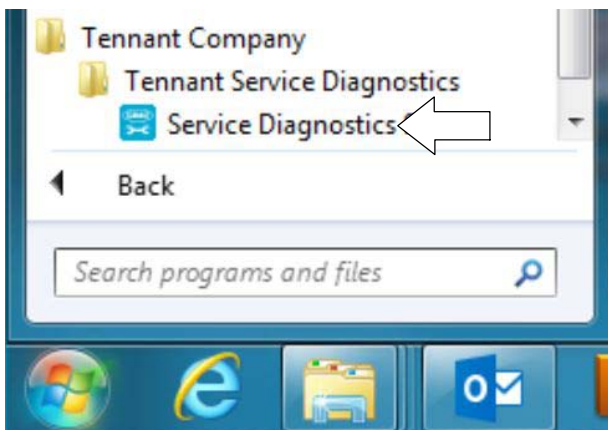


Fig. 9

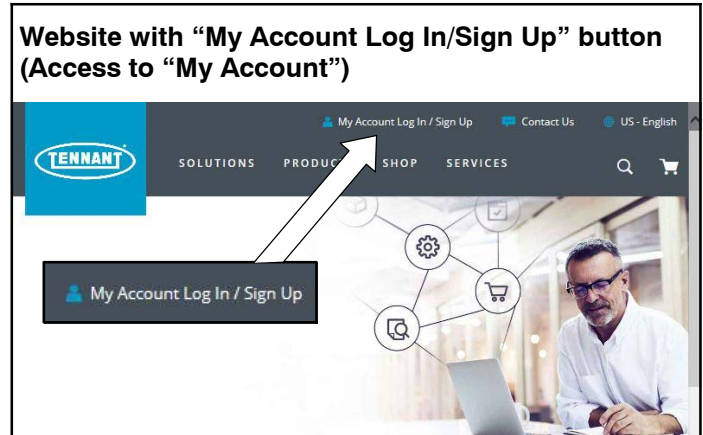
**Authorized Tennant Service Providers:**

The Service Application Software can be downloaded from the Tennant Public website as described below.

**NOTE:** If the Service Application Software is currently installed on your computer, confirm or re-install the software to ensure latest software version is installed.

To access the Service Application Software, go to [www.tennantco.com](http://www.tennantco.com). Depending on your geographical location, the website may have a “My Account Log In/Sign Up” button at the upper right or a “My Tennant Customer Sign In” tab at the upper right of the Tennant website as shown below (Figure 10).

Proceed with the software download instructions as described on the following pages.



OR



Fig. 10



**Website with “My Account Log In/Sign Up” button:**

1. Press “My Account Log In/Sign Up” to open or create an account (Figure 11).

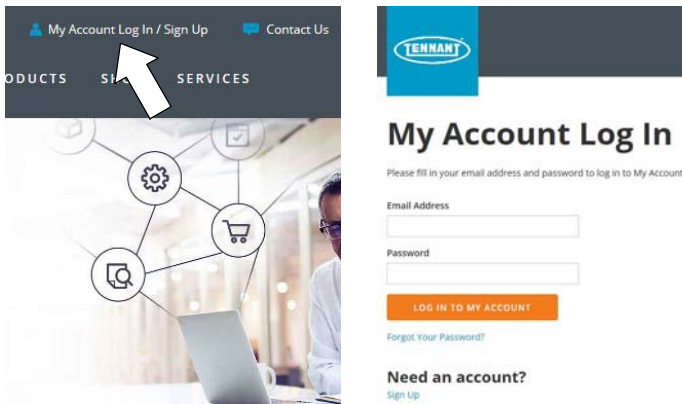


Fig. 11

2. Once logged in to the “My Account” website, click on the “DISTRIBUTOR RESOURCES” link as shown below (Figure 12).

**NOTE:** For internal customers, the link will be titled “INTERNAL RESOURCES”.

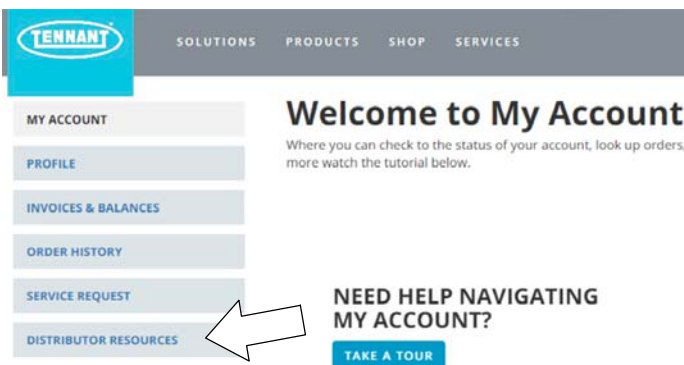


Fig. 12

3. Click on the “SERVICE APPLICATION SOFTWARE” link as shown below (Figure 13).

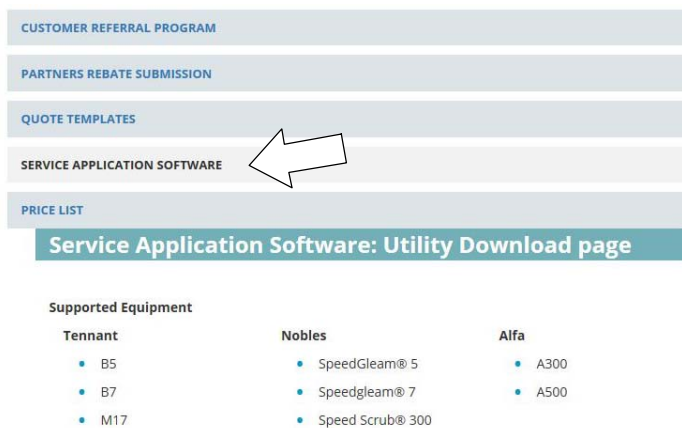


Fig. 13

4. Within the Service Application Software page, click on the link titled “Service Diagnostics LE version x.x.xx” (Figure 14).

**Documents**



Fig. 14

5. To download the service software continue to click as instructed then click the Save button (Figure 15).

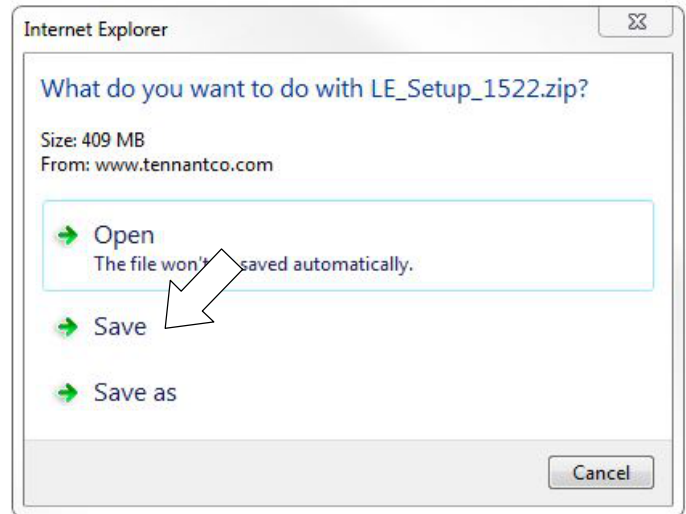


Fig. 15

6. Open the “Downloads” folder and locate the “LE\_Setup\_xxxx” zip file. Open the zip file and double click on the “LE\_Setup\_xxx” file to install the application software on your computer (Figure 16). Follow instructions on screen to install.



Fig. 16

7. After the service application software is installed on your computer, refer to figure 9 to access the program.

**Website with “My Tennant Customer Sign in” tab:**

1. Log in to the “My Tennant” website or register as a new user (Figure 17).

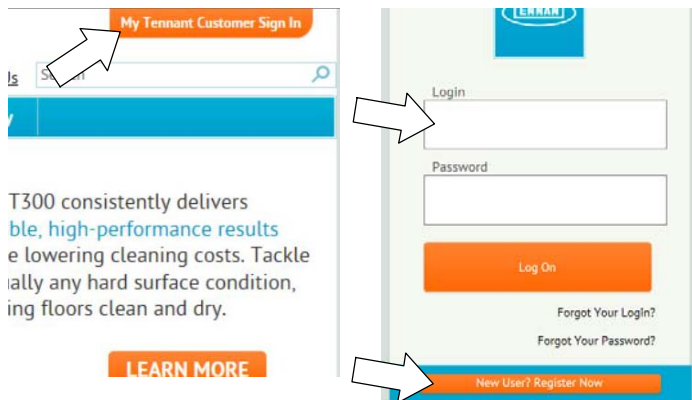


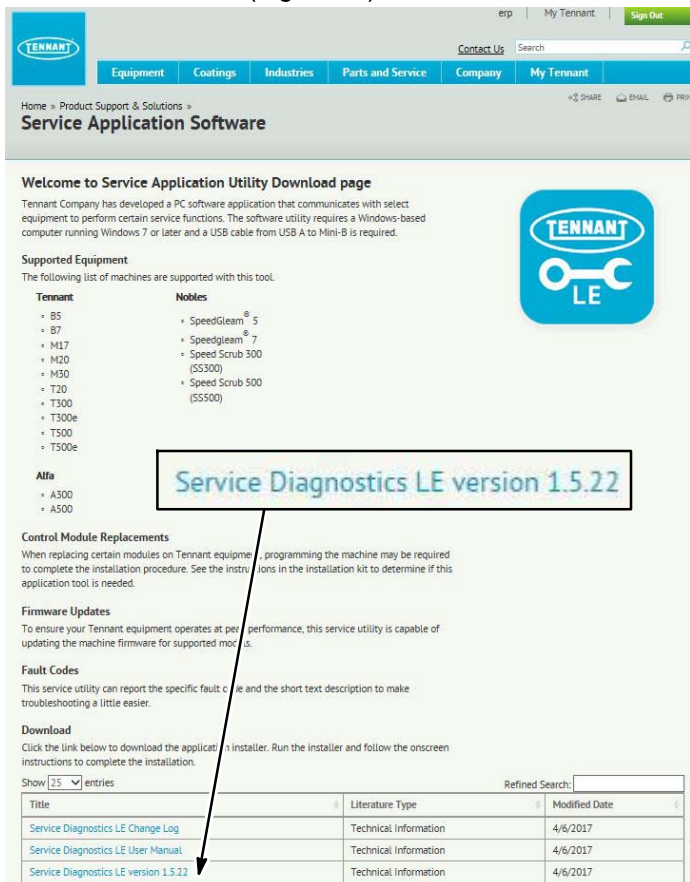
Fig. 17

2. Once logged on to the “My Tennant” website, click on the “Service Application Software” link under the “Product Support & Solution” section as shown below (Figure 18).



Fig. 18

3. Within the Service Application Software page, click on the link titled “Service Diagnostics LE version x.x.xx” to download the application installer then click the Save button (Figure 19).



Service Diagnostics LE version 1.5.22

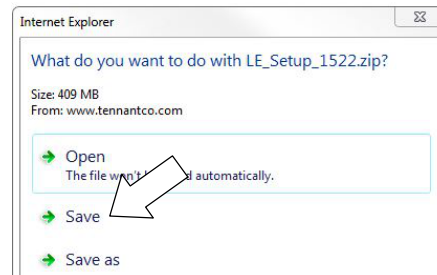


Fig. 19

4. Open the “Downloads” folder and locate the “LE\_Setup\_xxxx” zip file. Open the zip file and double click on the “LE\_Setup\_xxx” file to install the application software on your computer (Figure 20). Follow instructions on screen to install.



Fig. 20

5. After the software is installed on your computer, refer to figure 9 to access the program.