

IRIS Telemetry Kit

Models: T350, Speed Scrub 350




This kit includes the necessary parts to install IRIS telemetry technology on a standard model. Kit installation requires TennantTrue service or an authorized Tennant/Nobles service provider.

INSTALLATION INSTRUCTIONS:

Installation Time: 1.5 Hours

Kit Installation Requirements:

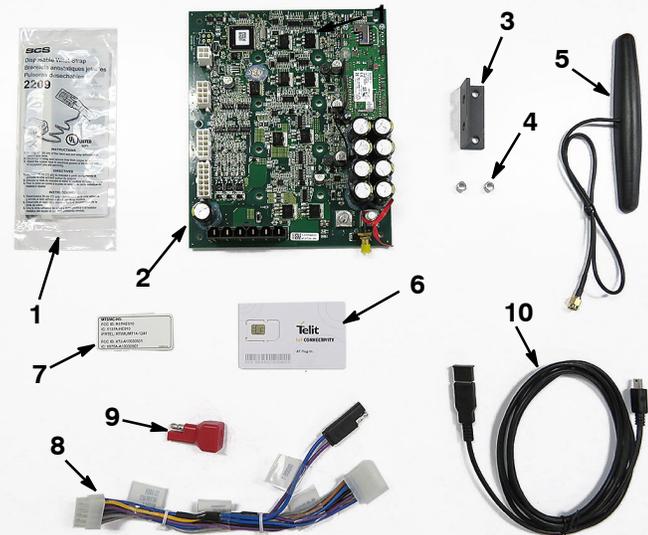
Tennant ServiceLink computer or a computer with Wi-Fi connection to access the Tennant Service Application Software, and USB cable (supplied with kit).

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

NOTICE - The IRIS Telemetry Kit MUST be activated to complete the installation. After kit is installed CALL Technical Support to activate as described on page 6.

Special Tools Required: T-25 torx screwdriver

Kit Contents



Ref	Part No.	Description	Qty.
1	27964	Strap, Ground, Static	1
2	9016809	Circuit Board, IRIS [T300, T350]	1
3	1227812	Bracket, SMA Connector	1
4	1227815	Spacer, Unthreaded, aluminum	2
5	315724	Antenna, Telem, 18.0 in [GPRS]	1
6	9040083	Card, SIM, Telem, Intl [Kit 9016805]	1
	9040082	Card, SIM, Telem, US [Kit 9040085]	1
7	1069580	Label, FCC, Telem [US, INTL]	1
8	1075195	Harness, Ele, Adaptor [AMII]	1
9	222290	Diode, Ele, Plug	1
10	1071235	USB Cable	1

PREPARE MACHINE FOR KIT INSTALL:

1. Completely drain recovery tank.
2. Park the machine on a level surface and remove key.
3. Disconnect battery cable from battery pack (Figure 1).

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

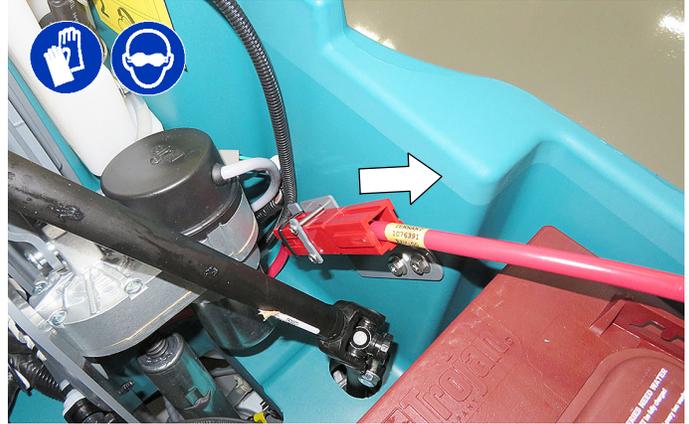


Fig. 1

4. Remove the door bracket to allow clearance to remove battery charger. The circuit board is located behind the battery charger (Figure 2).

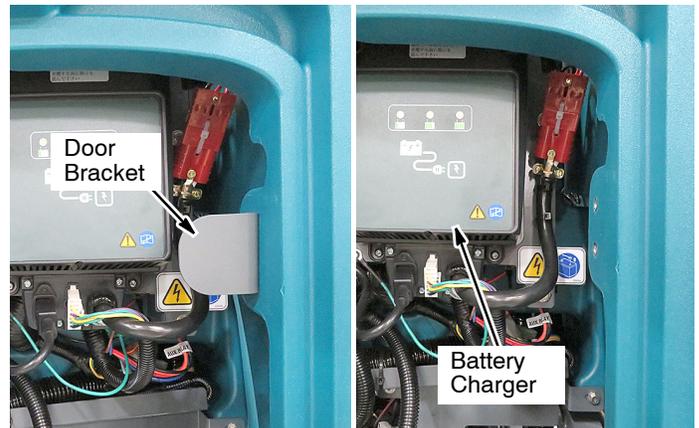


Fig. 2

5. Remove the three screws that mount the battery charger panel to the machine and carefully lower the battery charger as shown (Figure 3).

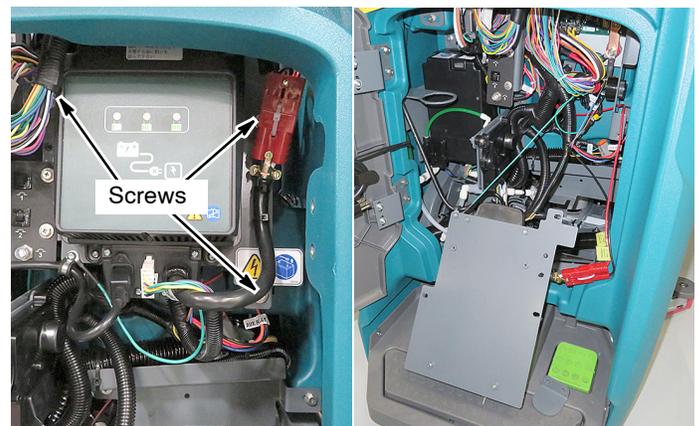


Fig. 3

- Disconnect the wire connectors, bus-bar and red cable from circuit board (Figure 3). Take note of connections before disconnecting.

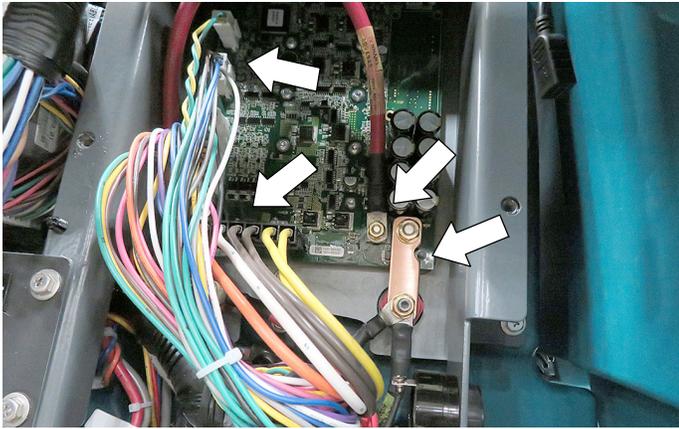


Fig. 4

- Remove the circuit board from the heat-sink panel (Figure 6). The circuit board is fastened on by eight torx screws and five standoffs. Squeeze the standoff flange to release circuit board from panel. Save screws for reuse.

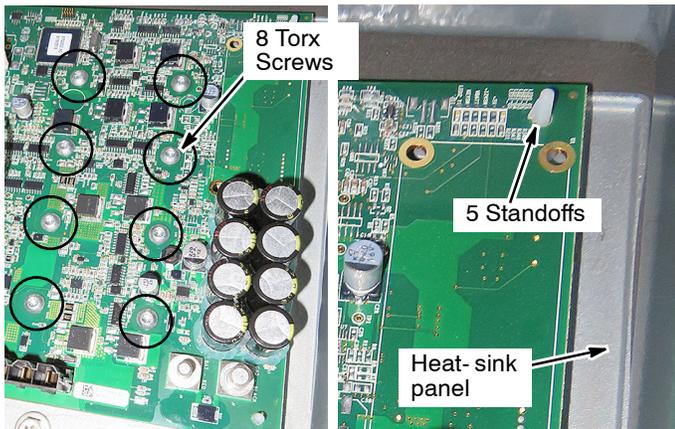


Fig. 5

INSTALL TELEMETRY KIT PARTS:

- Use the supplied static ground strap as instructed when handling the new IRIS circuit board (Figure 6).



Fig. 6

- Install the new IRIS circuit board to the heat-sink panel using existing hardware. Attach the antenna wire bracket to the board and connect the antenna wire from the IRIS circuit board as shown (Figure 7).

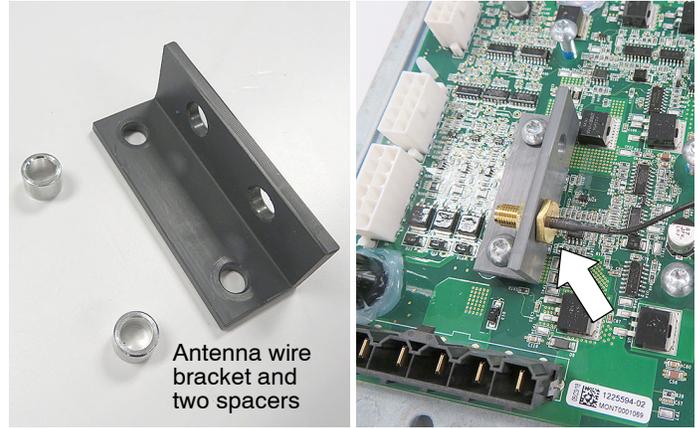


Fig. 7

- Adhere the antenna to the machine as shown and route the antenna wire to the new IRIS circuit board. Connect the antenna wire to the circuit board as shown (Figure 8). Secure the antenna wire with a cable-tie.

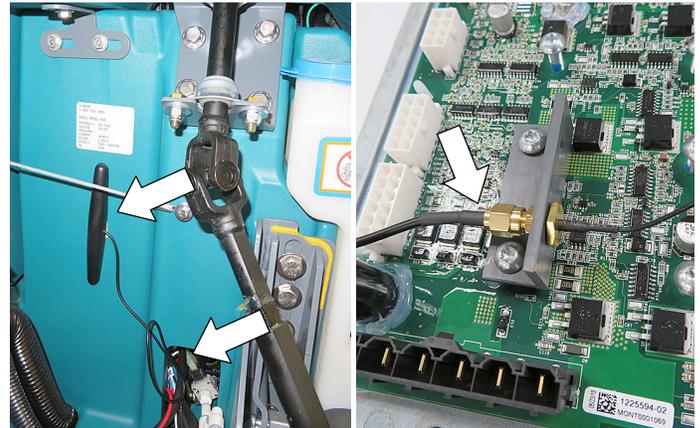


Fig. 8

- Reconnect the wire connectors, bus-bar and red cable to the new IRIS circuit board (Figure 9). Torque specs: 9 Nm (6.6 lb-ft)

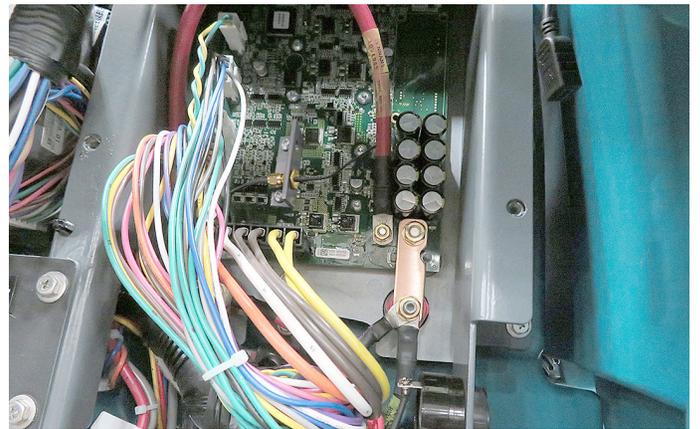


Fig. 9

- Carefully remove the telemetry SIM card from the card holder (Figure 10).

NOTE: DO NOT dispose the card holder, the bar-code information will be needed to activate the telemetry system as described later to complete installation.



Fig. 10

- Fully insert the SIM card into the new IRIS circuit board card slot as shown (Figure 11).

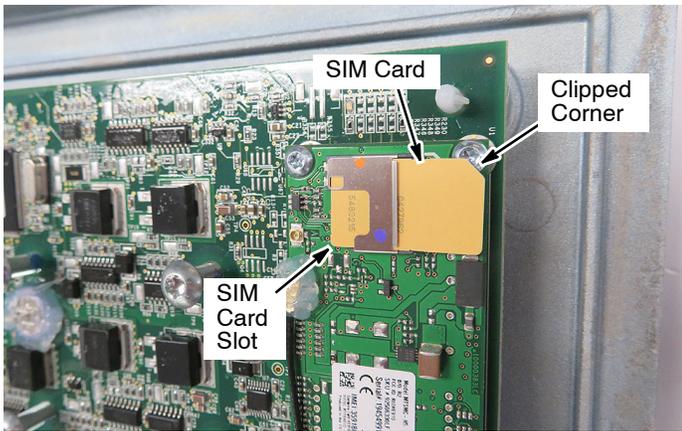


Fig. 11

- Reinstall the battery charger panel and replace the door bracket (Figure 12).

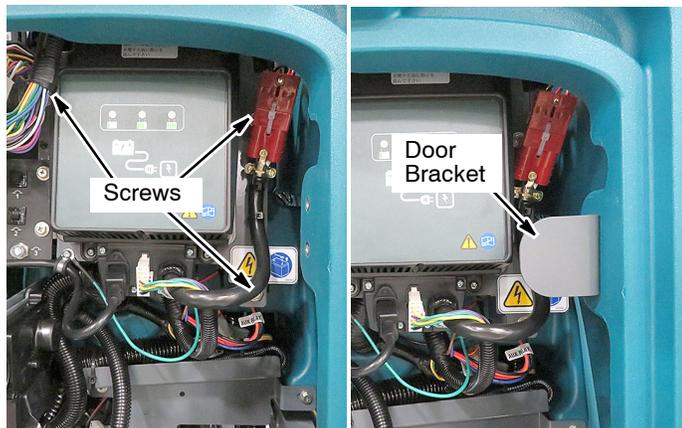


Fig. 12

- Remove the six mounting screws from the control panel and carefully position the panel as shown (Figure 13).

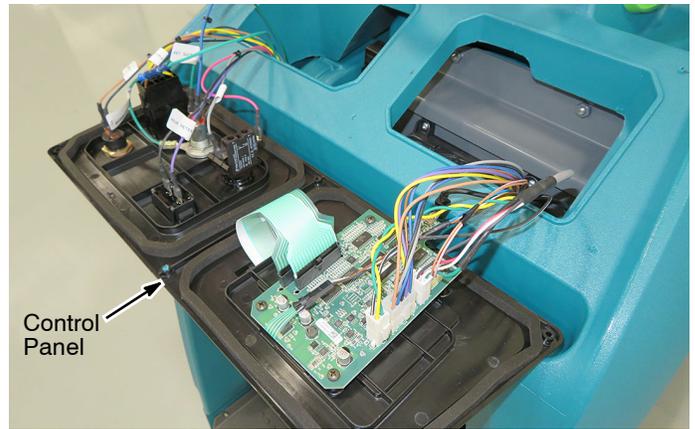


Fig. 13

- Disconnect the center wire harness connector from the panel (Figure 14).

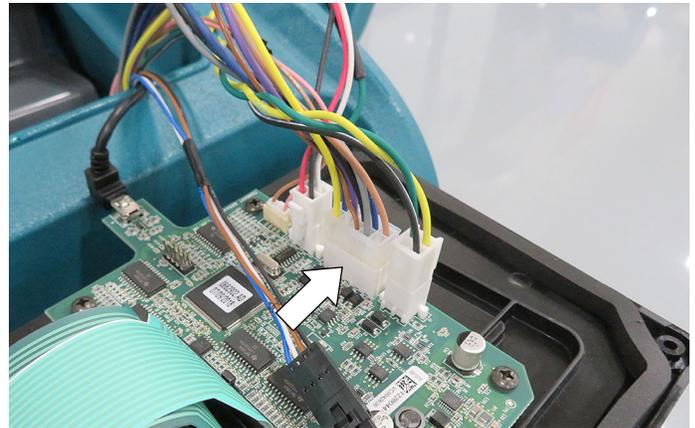


Fig. 14

- Plug the diode into the AMII harness adaptor, supplied with kit, as shown (Figure 15).



Fig. 15

11. Connect the AMII harness adaptor into the control board and into the disconnected harness connector as shown (Figure 16).

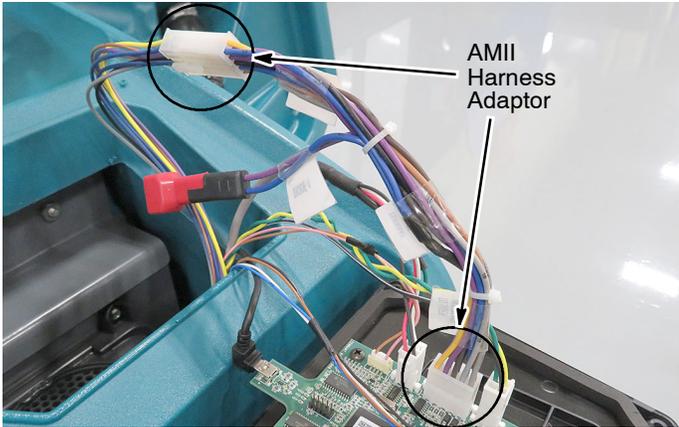


Fig. 16

12. Reinstall the control panel (Figure 17).



Fig. 17

13. Reconnect the battery cable into the battery pack.



Fig. 18

14. Adhere the FCC label on the rear door panel as shown (Figure 19).



Fig. 19

15. Reconfigure the machine's control board for IRIS technology as described in the next section.

RECONFIGURE THE MACHINE'S CONTROL BOARD FOR IRIS TELEMETRY TECHNOLOGY:

The Tennant Service Application Software is required to reconfigure the machine's control board to recognize the IRIS Telemetry installed kit. See **TENNANT SERVICE APPLICATION SOFTWARE** on page 7 to access software.

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.

If you encounter any problems during the programming process please contact the Technical Service Department for support.

1. Start the Service Software Application program "Service Diagnostics..." (Figure 20).



Fig. 20

2. After start up, the following screen will appear (Figure 21).

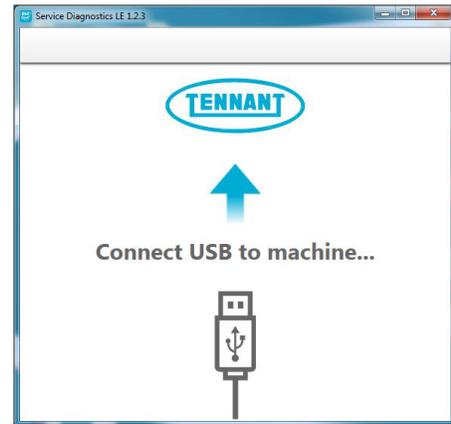


Fig. 21

3. Connect the USB cable, supplied with kit, to the computer and into the USB port on machine. Turn the key switch to the on position (Figure 22).



Fig. 22

- The application software will then connect to the machine (Figure NO TAG). 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. 23

- Once connected, the home screen will appear (Figure 24). If firmware updates are required, the “Firmware” button will be highlighted in yellow as shown. Press the button to update the machine’s firmware.

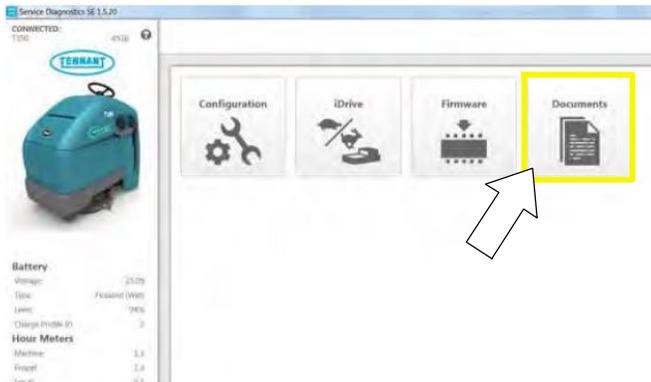


Fig. 24

Continue with the firmware update by pressing the yellow “Update” button as shown (Figure 25).

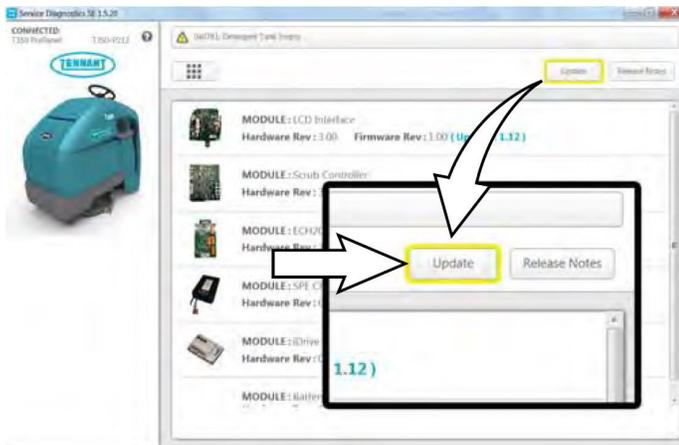


Fig. 25

- From the Home screen, press the Configuration button (Figure 26).

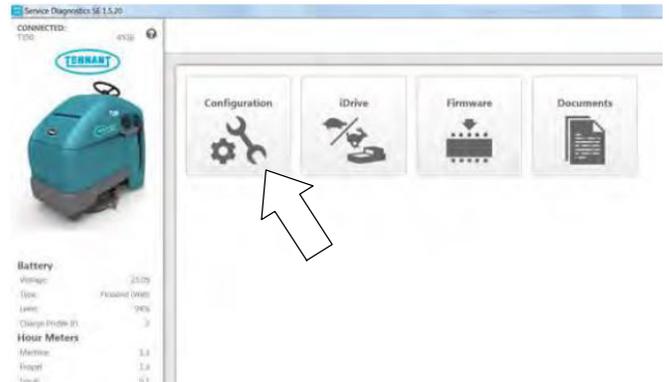


Fig. 26

- From the machine configuration page, select “Yes” for **Machine Communication (IRIS)** (Figure 27). Then press the down arrow button to program the machine. A green check will appear next to the down arrow button when programmed.

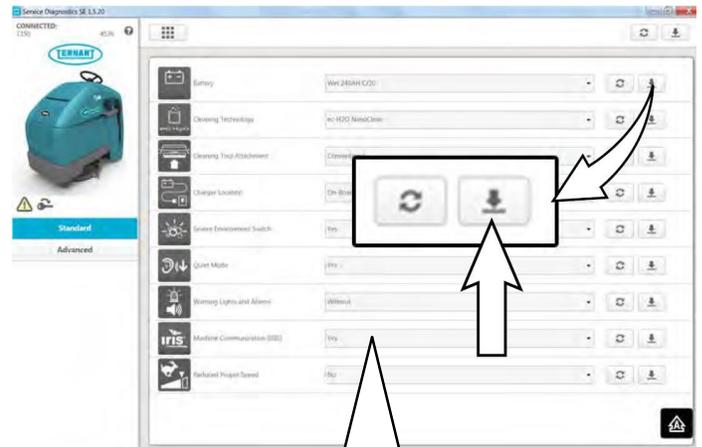


Fig. 27

- Cycle the key to apply the new machine configuration. Disconnect the USB cable.
- Activate the IRIS telemetry system as described in next section.

ACTIVATE THE IRIS TELEMETRY SYSTEM

NOTE: *The IRIS telemetry system must be activated to complete this installation. The system will not function until it is activated.*

For assistance to activate the IRIS telemetry system, call your customer service location:

Before calling, be sure to have the machine serial number and the 20 digit SIM card bar-code number ready for activation (Figure 28).

Australia Customer Service Location: Call CCC between hours 8:00 am and 5 pm AEST, Monday through Friday. Ask to be routed to the IRIS expert for assistance.

Canada, Europe, Middle East, Africa Customer Service Location: Call local IRIS expert between hours 8:00 am and 5 pm, Monday through Friday.

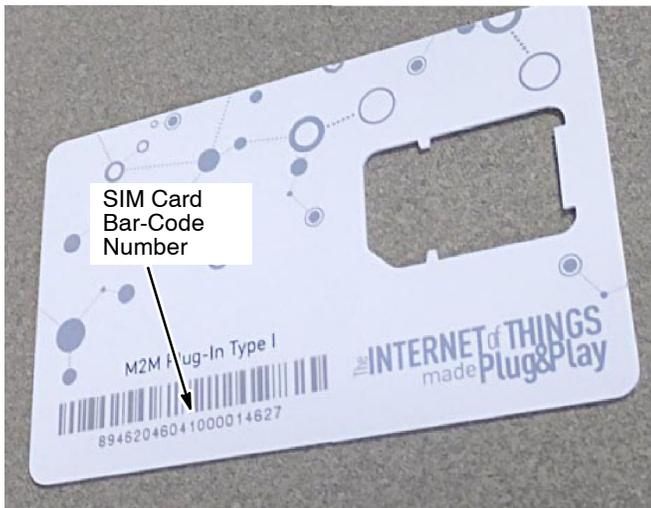


Fig. 28

TENNANT SERVICE APPLICATION SOFTWARE:

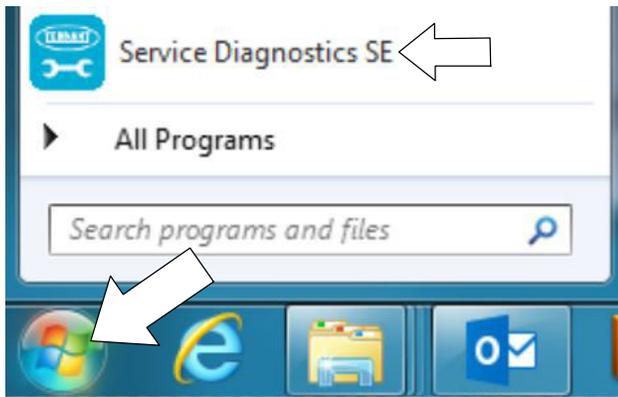
The Tennant service application software can be accessed or downloaded as described below.

TennantTrue Service personnel with ServiceLink computers:

The software is pre-installed on your computer as shown below. The software application is titled “**Service Diagnostics**” (Figure 29). ServiceLink computers have latest software version.



From Start menu



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

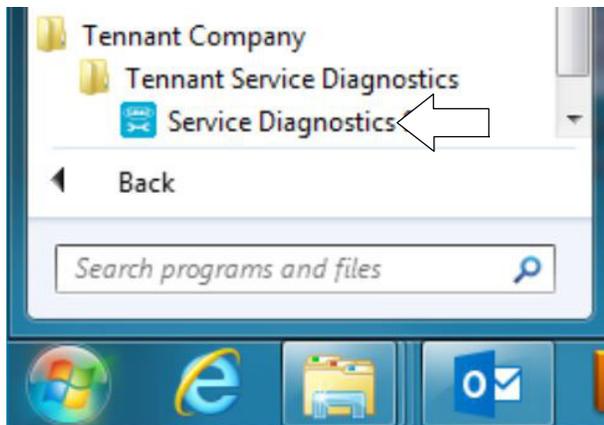


Fig. 29

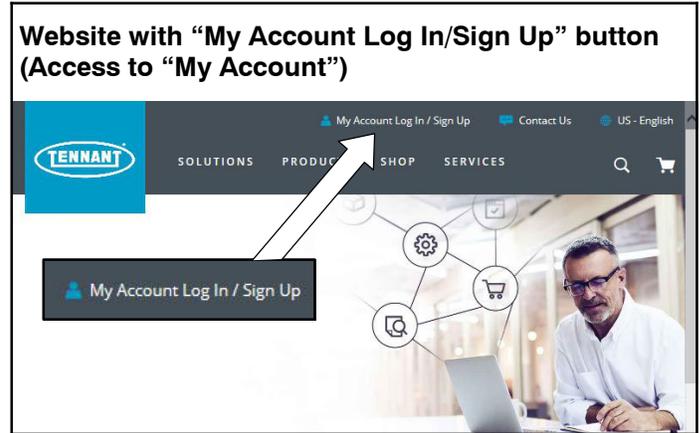
Authorized Tennant Service Providers:

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. 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 30).

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



OR



Fig. 30

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

1. Press “My Account Log In/Sign Up” to open or create an account (Figure 31).

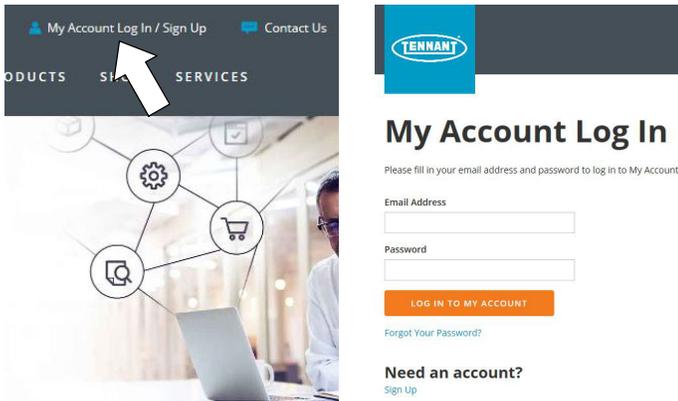


Fig. 31

2. Once logged in to the “My Account” website, click on the “INTERNAL RESOURCES” link as shown below (Figure 32).

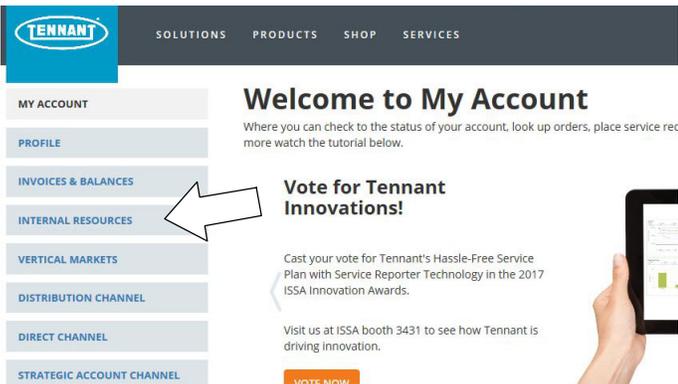


Fig. 32

3. Click on the “SERVICE APPLICATION SOFTWARE” link as shown below (Figure 33).

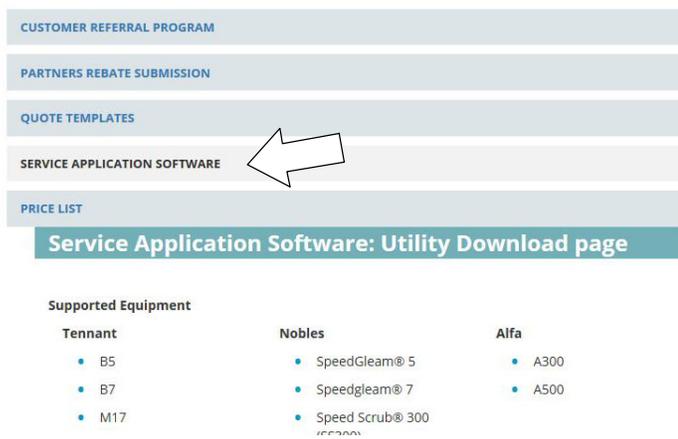


Fig. 33

4. Within the Service Application Software page, click on the link titled “Service Diagnostics LE version x.x.xx” (Figure 34).

Documents



Fig. 34

5. To download the service software continue to click as instructed then click the Save button (Figure 35).

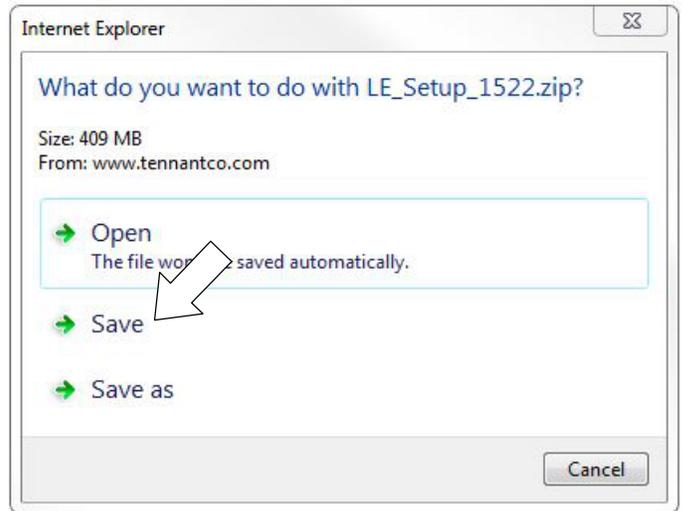


Fig. 35

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 NO TAG). Follow instructions on screen to install.



Fig. 36

7. After the service application software is installed on your computer, refer to figure 29 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 37).

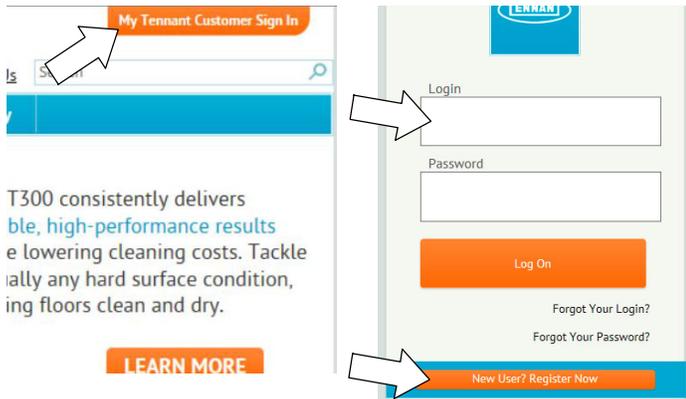


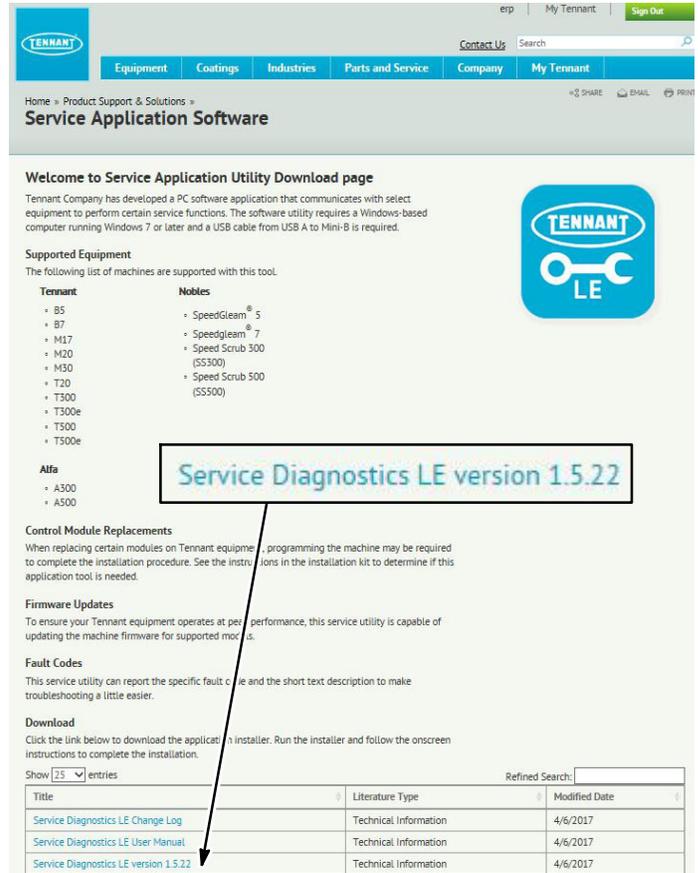
Fig. 37

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 38).



Fig. 38

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 39).



Service Diagnostics LE version 1.5.22

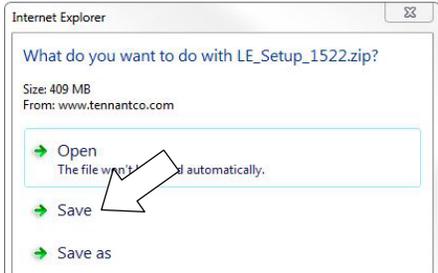


Fig. 39

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 40). Follow instructions on screen to install.



Fig. 40

5. After the software is installed on your computer, refer to figure 29 to access the program.