TTI Floor Care North America

Technical Service Bulletin

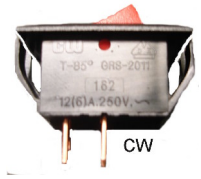
Memo # - 1005 **January 2010**

To: Technical Service Bulletin Distribution List

Subject: <u>Switch replacement for 28161067 CW Switch</u>

This letter is notification of a new design switch that will replace the current 28161067 CW Switch.

The new switch is manufactured by Defond. The Defond switch has 3 inch lead wires vs. terminals that were used with the 28161067 CW switch. It also has Defond molded into the switch body.



CW - 28161067

Defond – Prod – 28161074

Defond – Service - 28161075

The new Defond switch will be introduced on the following model lines as a running change - WindTunnel Self Propelled Bagged and Bagless, WindTunnel Bagged and Bagless, FoldAway, and GUV Utility Vac.

There are two Defond switches that are being introduced as a result of this change.

The first design is being used in production. This switch has a larger switch body than the 28161067 CW switch. In order to accommodate the larger switch the bag housing / dirt cup housing was redesigned with a larger switch opening. **This switch has one black and one yellow lead wire for identification – Part number 28161074**. New part numbers were assigned to applicable housings. The part listings will be revised to reflect this change.

The second design is used to replace 28161067 CW switch failures. This design is dimensionally the same as the 28161067 CW switch and fits into the existing switch opening. **This switch has two black leads for identification – Part number 28161075.**

Service:

Individual part numbers have been assigned to both designs. It is important to follow the criteria listed below as these switches are not interchangeable.

<u>Defond – Production – used to service models that were produced with the Defond switch</u>

Switch – 28161074 – One black and one yellow lead wire.

<u>Defond – Service – used to service models that were produced with the 28161067 CW switch</u>

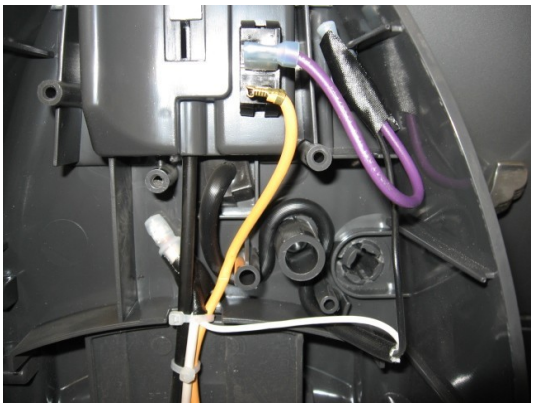
Switch – 28161075 – Two black leads

Procedure for replacing the 28161067 CW Switch with Defond:

Replacing the existing 28161067 CW switch with the Defond switch requires minor wiring modifications. The lead wire terminals used with the CW switch will have to be removed in order to splice the lead wires with the Defond switch. It is important to properly secure the connection with wire connectors. Positioning is shown below.

Once the wire connector is installed a small piece of electrical tape should be applied over the assembly. Upon reassembly the lead wires must be positioned to prevent pinching. This is especially prevalent with the Self Propelled WindTunnel model line.

Self Propelled Windtunnel – Bagged and Bagless



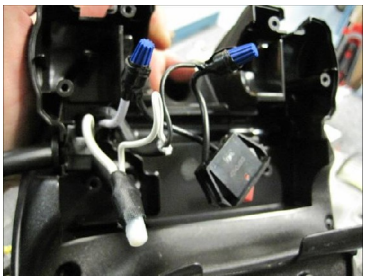
1. Remove purple lead wire. It will not be used with Defond switch
2. Cut ¼” terminal off of orange TOC lead wire
3. Remove CW switch from housing

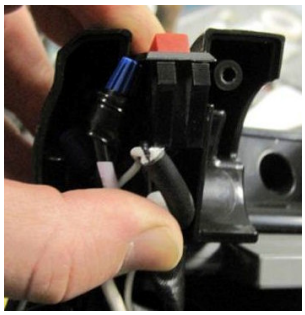
Install Defond Switch

1. Snap Defond Switch in housing.
2. Assemble one switch lead to black / purple wire from cord as shown
3. Assemble other switch lead to orange TOC lead as shown
4. Position wires to avoid pinch points when tool holder is reassembled

WindTunnel Non Self Propelled, GUV, and FoldAway

1. Disconnect terminals from CW switch
2. Cut ¼” terminals from switch lead wires and strip wires
3. Position Defond Switch and splice wires as shown below
4. Illustrations below show applicable model lines with Defond switch assembled





FoldAway

GUV

WindTunnel