

# Service Series – Changing Stator Voltage

SEW  
EURODRIVE

SERVICE

Schaltbild/ Circuit diagram/ Schéma de branchement 68 043 05 06

YY/Y in Y, 6pol. Klemmbrett / Double star/star in star, 6 pin terminal board / 6 bornes pour couplage „YY/Y en Y

Spannungsumschaltbar 1:2 / Voltage switchable 1:2 / Tensions Commutables 1:2

DE,EN,FR Seite/Page 1/2

BMS 05.07.10

R76

YY-Schaltung – niedere Spannung  
Beispiel: 230V

Double Star-connected – low voltage  
Example: 230V

Branchement YY – basse tension  
Exemple: 230V

Y-Schaltung – hohe Spannung  
Beispiel: 400V

Star-connected – high voltage  
Example: 400V

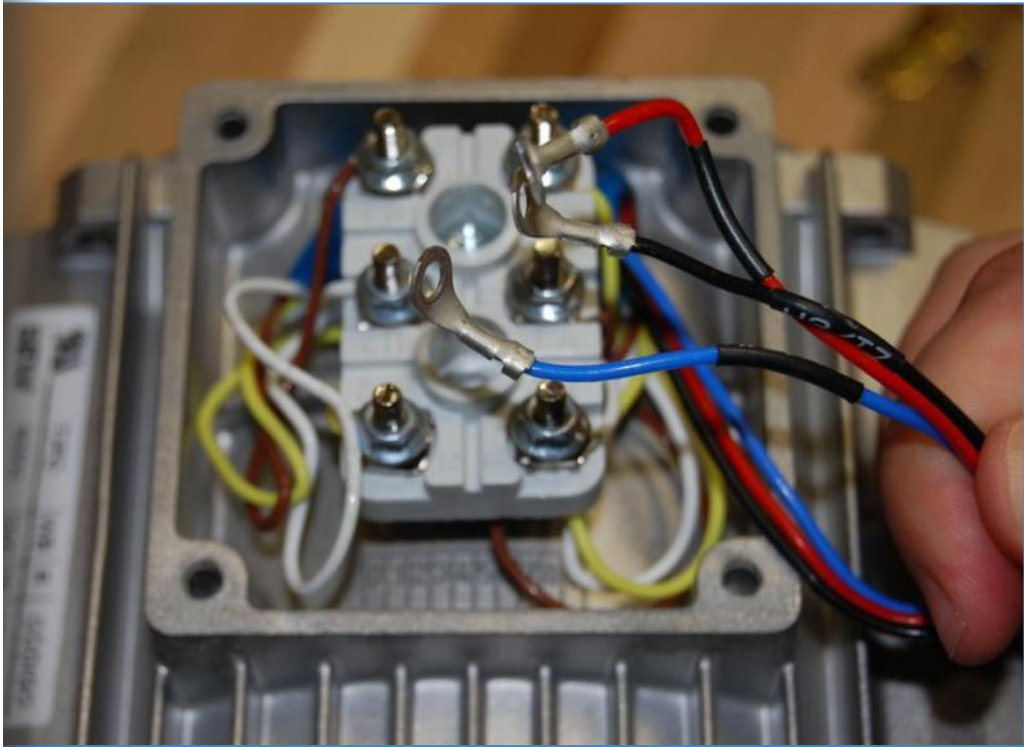
Branchement Y – haute tension  
Exemple: 400V

68043 XX 05 01 03

Werkseitig Y geschaltet	Connected star in factory	Câblée Y en usine
<p>! Wechsel der Schaltung: Die Anschlüsse U3(T7), V3(T8) und W3(T9) sind Brücken gemäß Schaltbild unverdrahten</p>	<p>! Voltage Change: Move the location of wires U3(T7), V3(T8) and W3(T9). Install or remove brass jumpers according to the wiring diagram</p>	<p>! Changement de couplage: Recâbler les raccords U3(T7), V3(T8) et W3(T9) comme indiqué dans le schéma de branchement</p>
[1] Motor клеммная [2] Заземления	[1] Motor terminal board [2] Supply leads	[1] Plaque à bornes du moteur [2] Alimentation
Drehrichtungsumkehr: Vertauschen von 2 Zuleitungen (L1-L2)	To reverse: Interchange 2 supply leads (L1-L2)	Changement du sens de rotation Inverser deux conducteurs d'alimentation (L1-L2)

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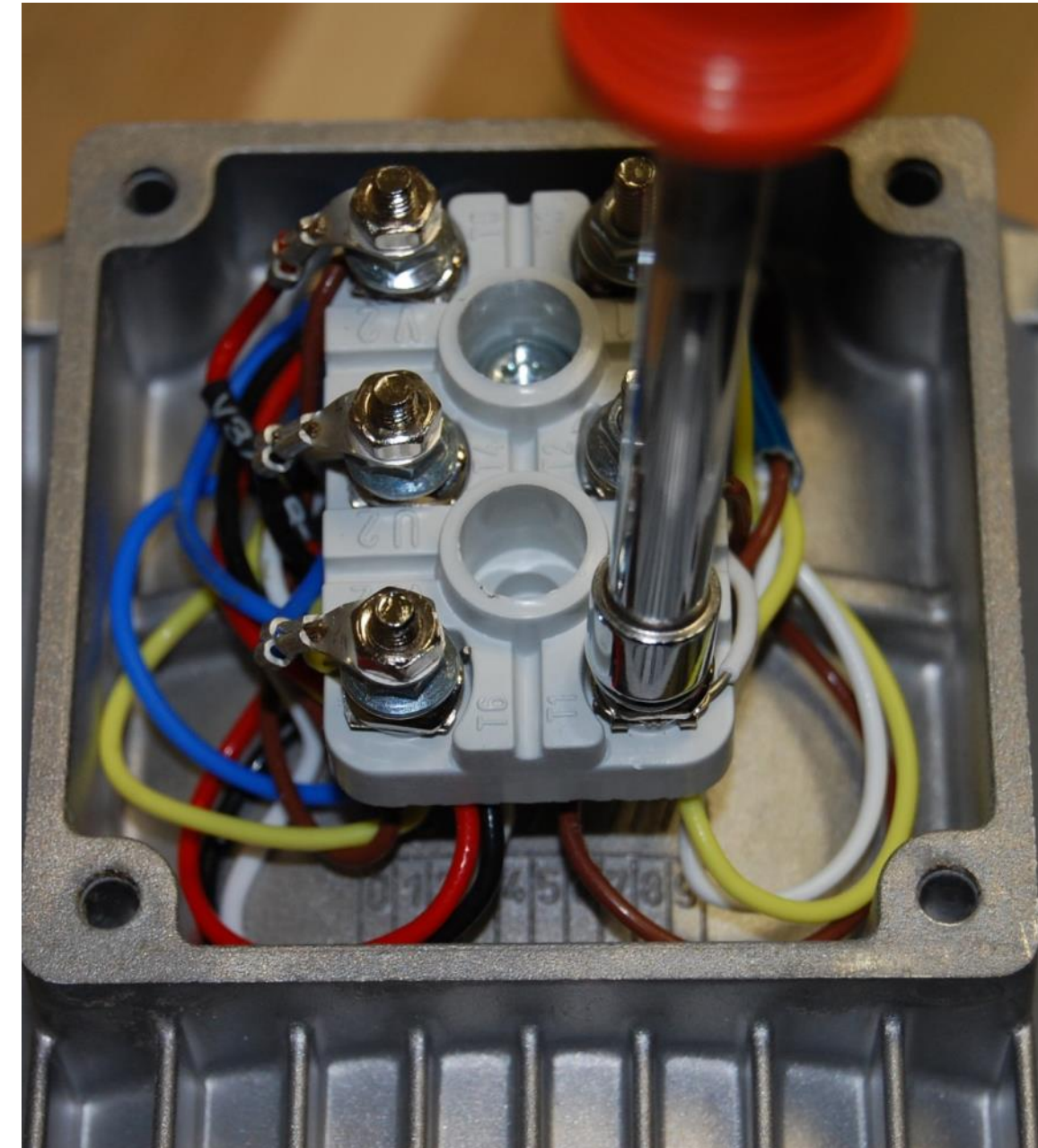
## Service Series – Changing Stator Voltage

SEW-EURODRIVE motors come wired for high voltage as standard from the factory.

This service document will focus on how to change the wiring of a DR..motor from High Voltage to Low Voltage.

Any work performed on SEW-EURODRIVE product, should be done so safely.

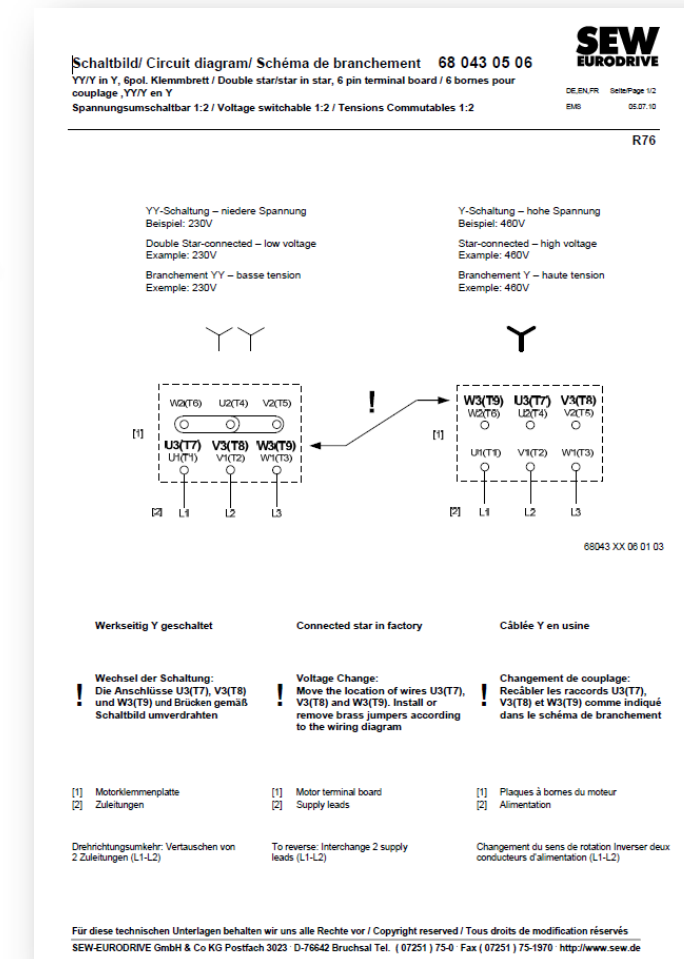
For assistance at any point in the process, please go to [www.seweurodrive.com](http://www.seweurodrive.com) for service contact info.



# Service Series – Changing Stator Voltage

## Required Resources:

- Wiring Diagram (R76)\*
- 7mm Metric Hex Nut Driver



\*Supplied with motor and available in the DR.. Motor Operating Instructions found here [www.seweurodrive.com](http://www.seweurodrive.com)



## Service Series – Changing Stator Voltage

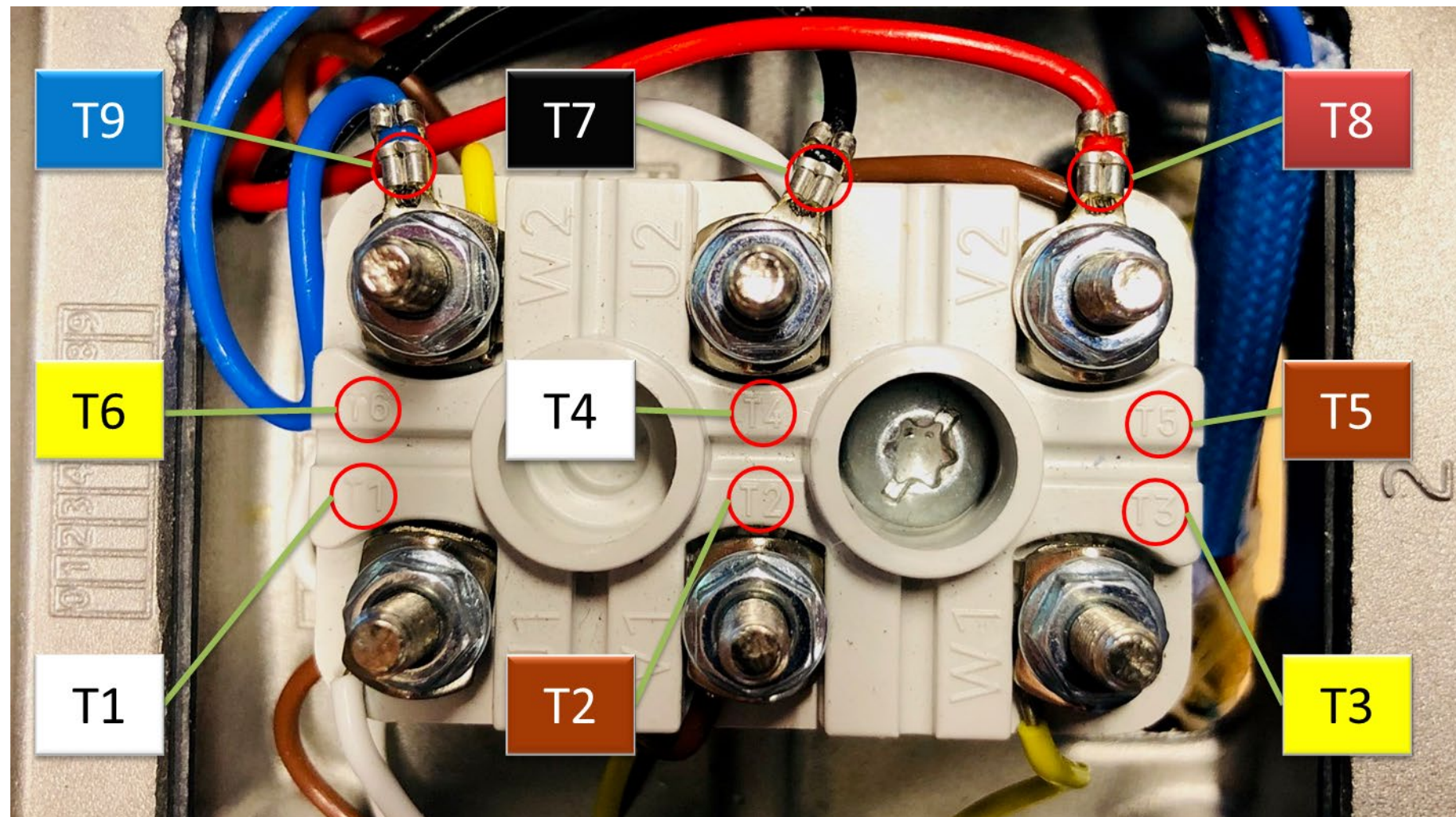
### Safety Reminders:

- Always disconnect power before beginning work
- Follow the most current safe work practices
- Make use of all required Personal Protective Equipment
- If you do not feel safe stop work immediately



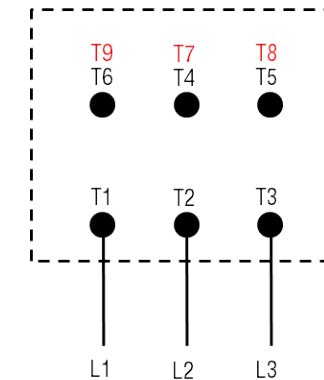
# Service Series – Changing Stator Voltage

Identify the terminal numbers/wires

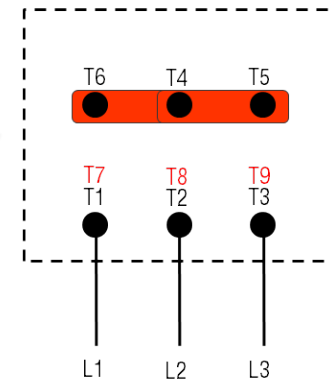


## Step 1

High Voltage Y



Low Voltage YY



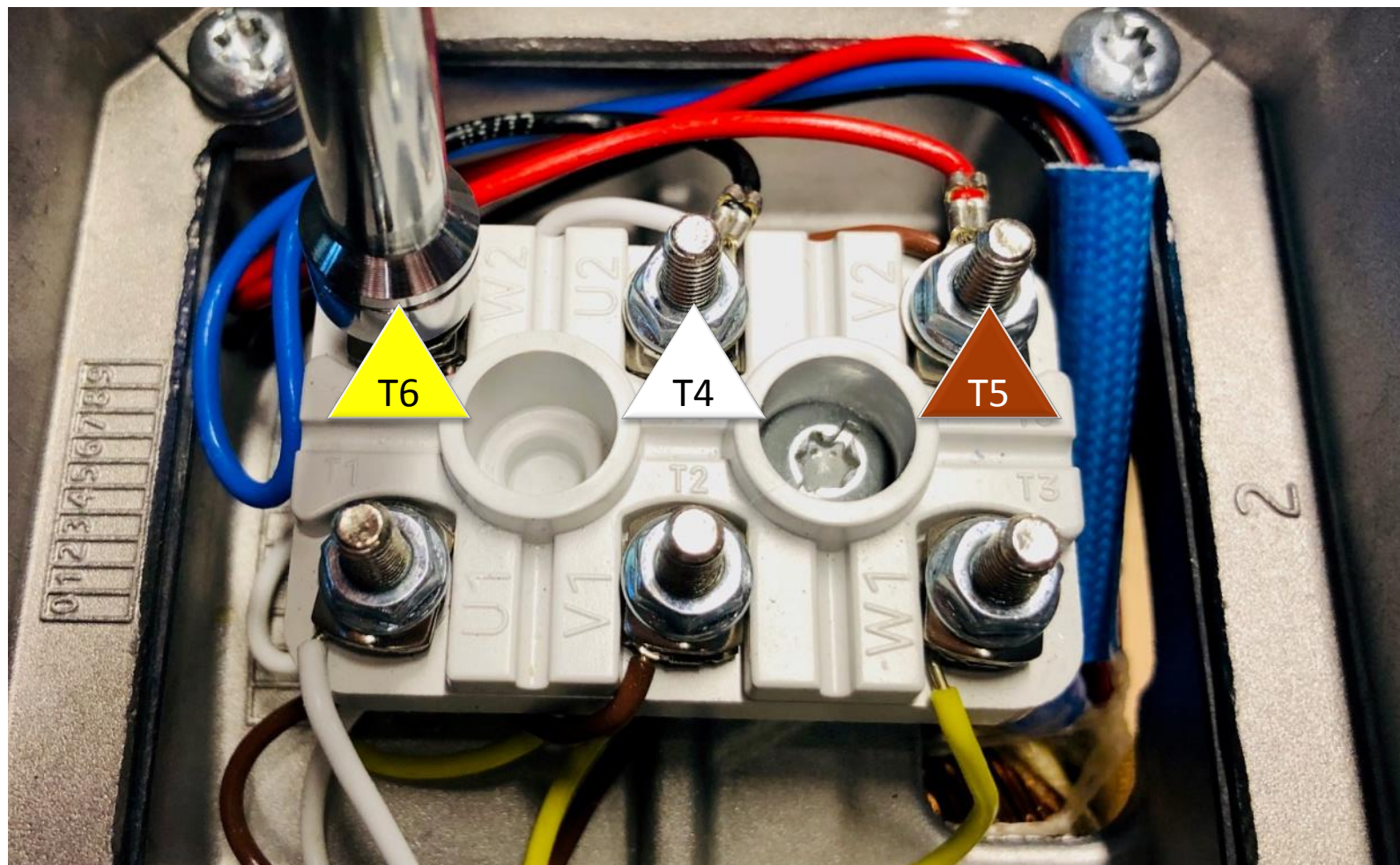
For reference

This tutorial is for changing  
a motor from  
**High Y Voltage**  
to **Low YY Voltage**

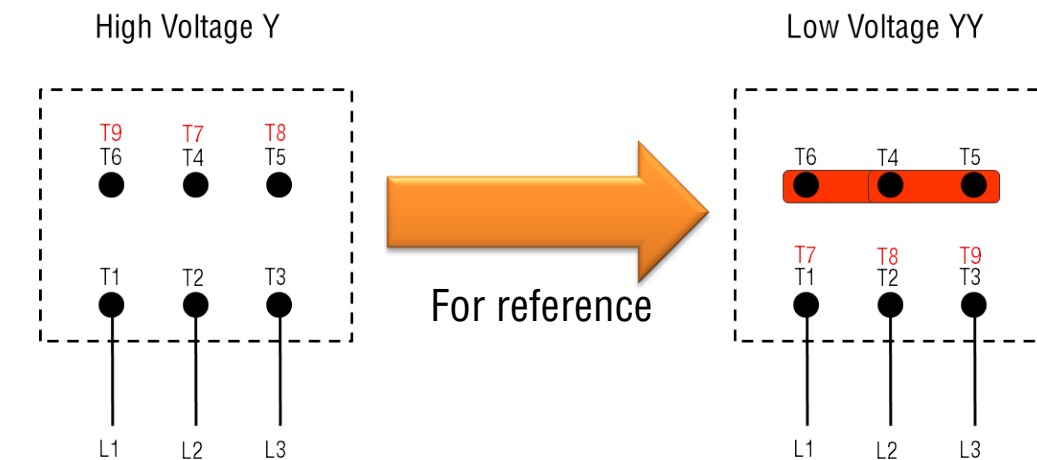


## Service Series – Changing Stator Voltage

Remove the terminal nuts from **T6** / **T4** / **T5** using the metric nut driver



## Step 2

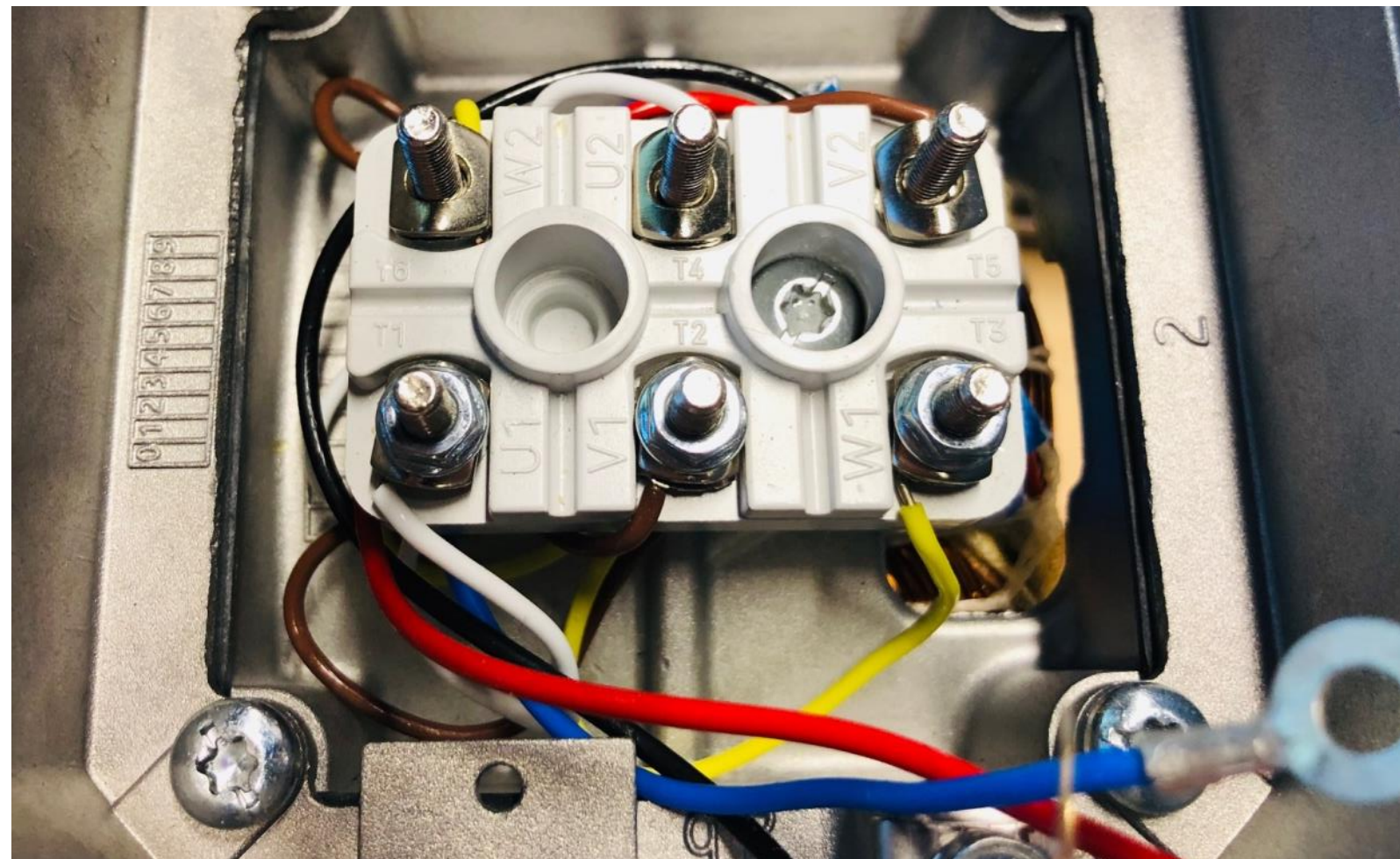


Use caution when tightening or loosening the terminal nuts, as the ceramic terminal block can be damaged from over-torquing the fastener assembly

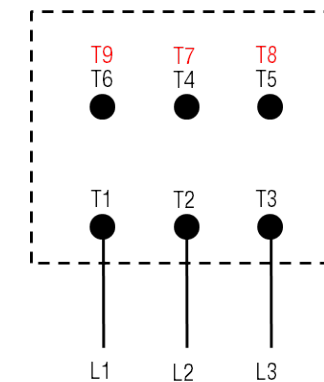
## Service Series – Changing Stator Voltage

Remove **T9 Blue** / **T7 Black** / **T8 Red** wires from the terminals

### Step 3

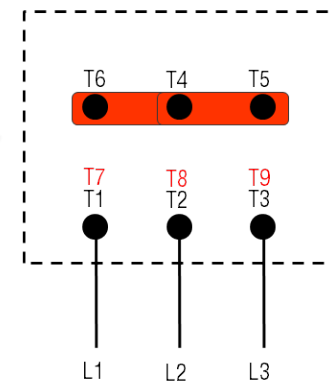


High Voltage Y



For reference

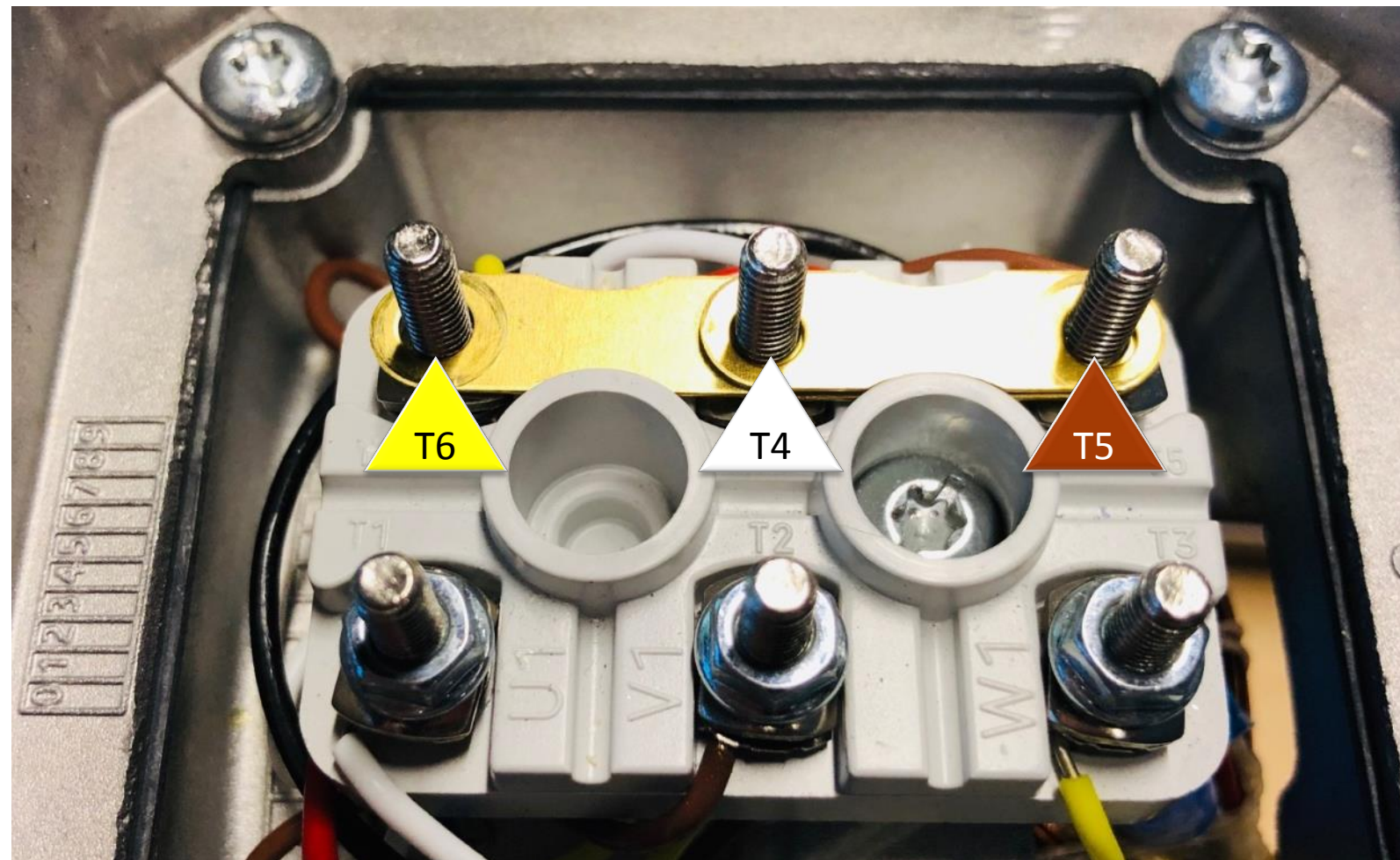
Low Voltage YY





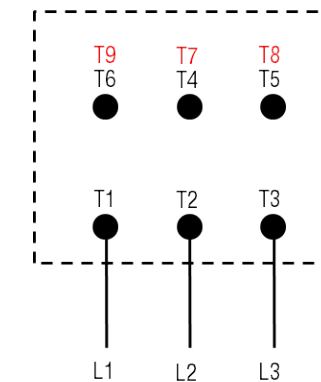
## Service Series – Changing Stator Voltage

Install the brass jumper bars onto **T6 / T4 / T5** posts



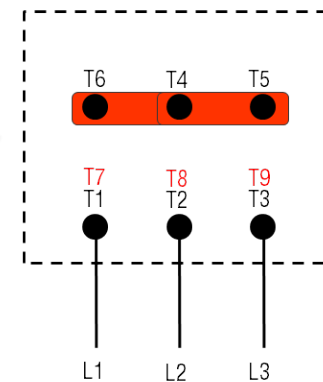
### Step 4

High Voltage Y



For reference

Low Voltage YY

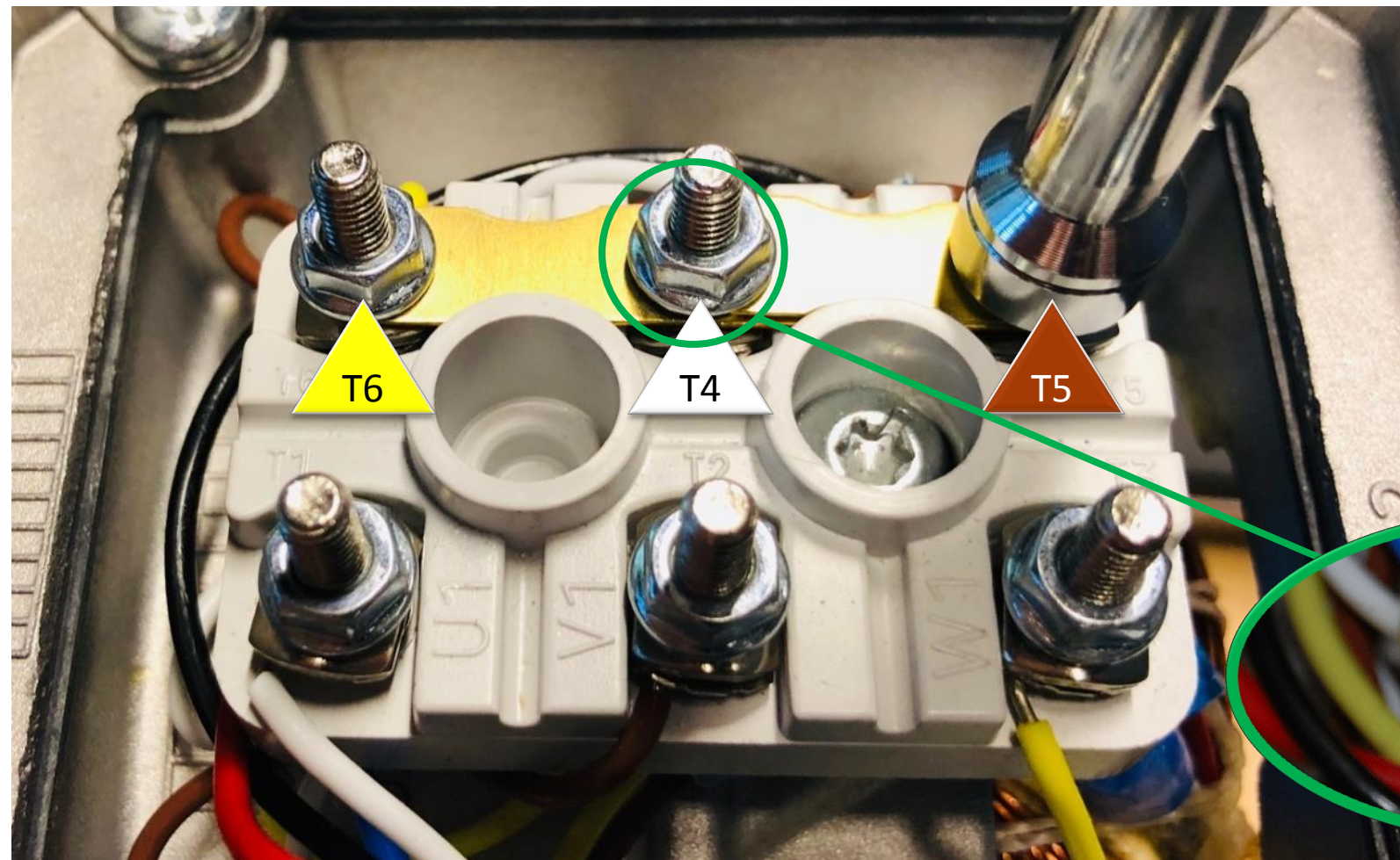




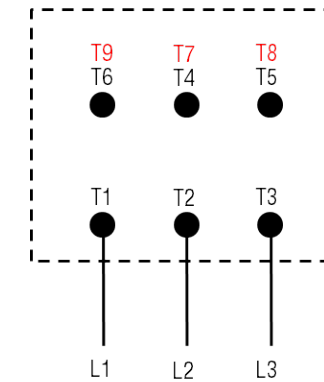
## Service Series – Changing Stator Voltage

Install the terminal nuts for **T6 / T4 / T5** using the metric nut driver

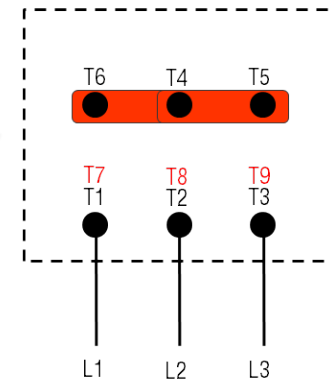
### Step 5



High Voltage Y



Low Voltage YY

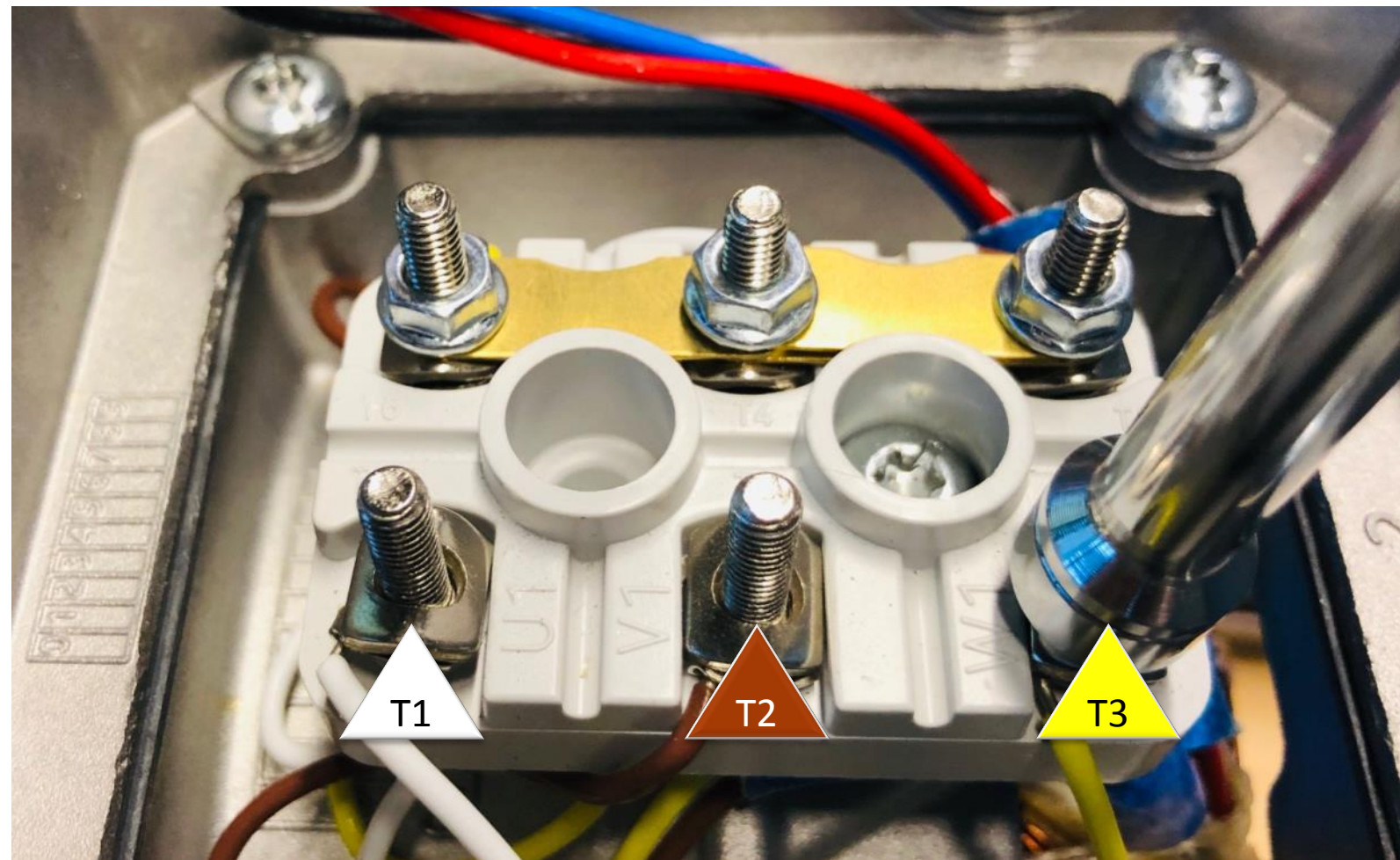


For reference

Use care when installing the brass bridges so that the terminal washers do not shift out of place.

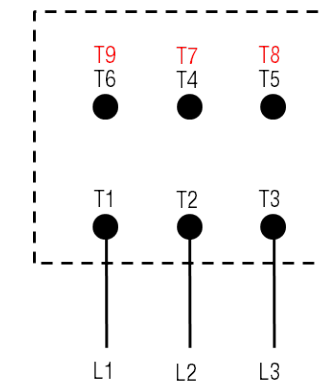
## Service Series – Changing Stator Voltage

Remove the terminal nuts from **T1** / **T2** / **T3** using the metric nut driver

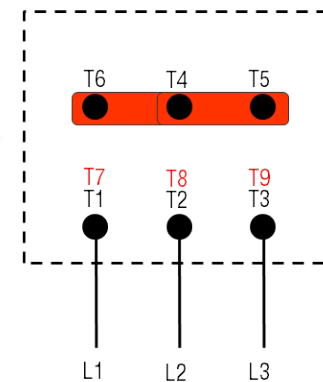


## Step 6

High Voltage Y



Low Voltage YY

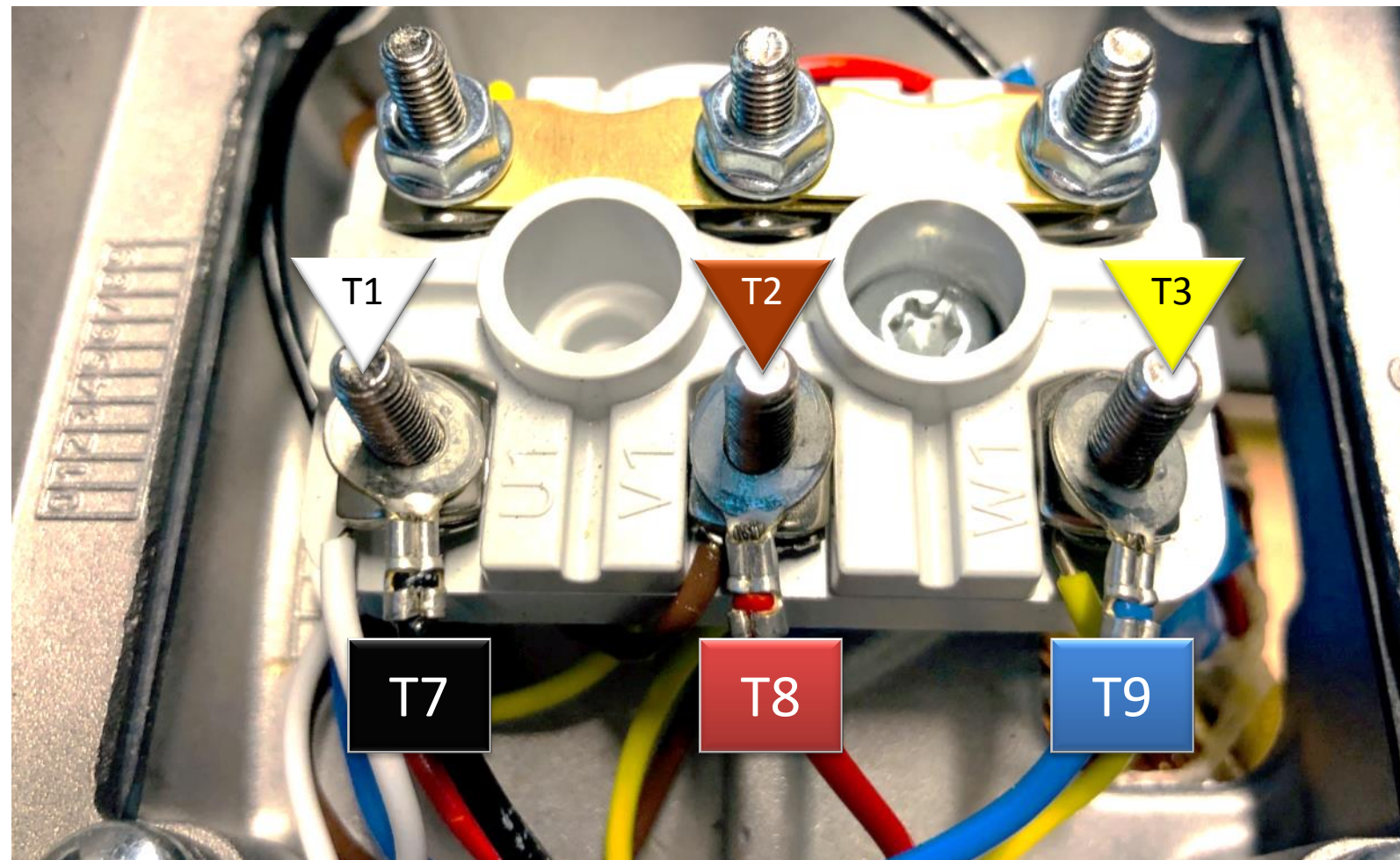


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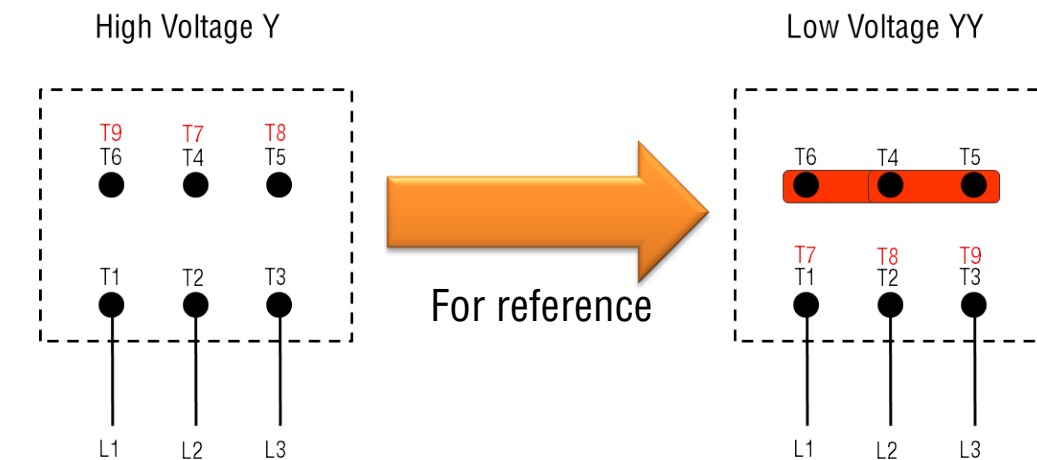


## Service Series – Changing Stator Voltage

Install **T9 Blue** / **T7 Black** / **T8 Red** wires onto the correct terminals (**T7** to T1 / **T8** to T2 / **T9** to T3)

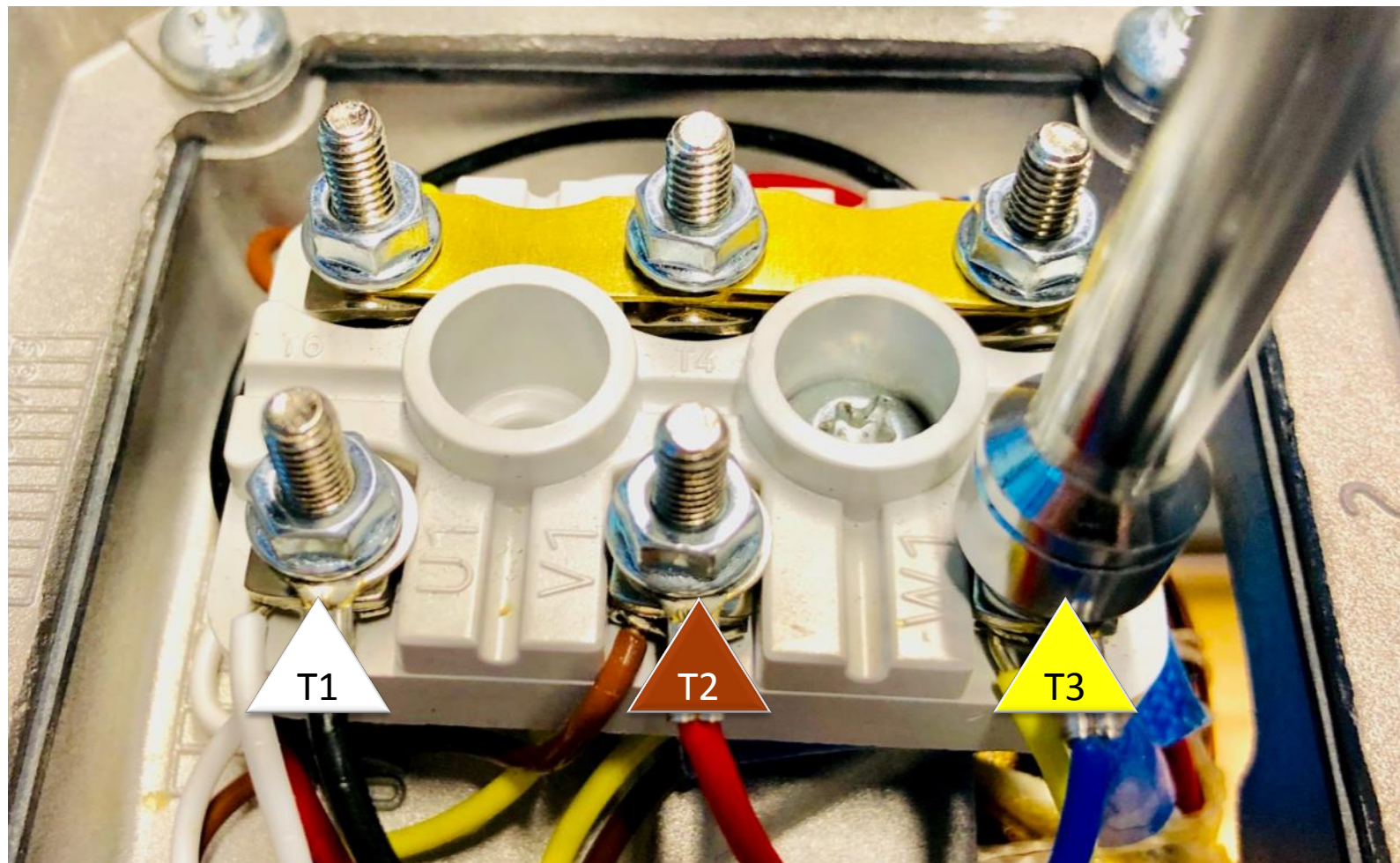


## Step 7



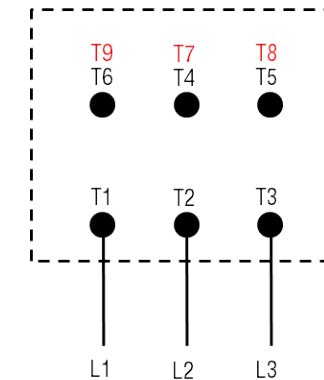
## Service Series – Changing Stator Voltage

Install the terminal nuts onto **T1 / T2 / T3** using the metric nut driver

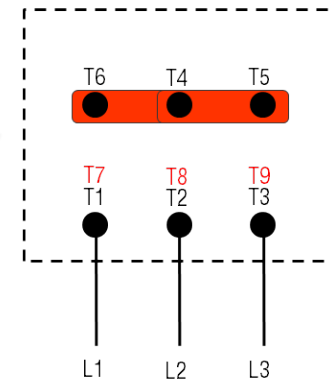


### Step 8

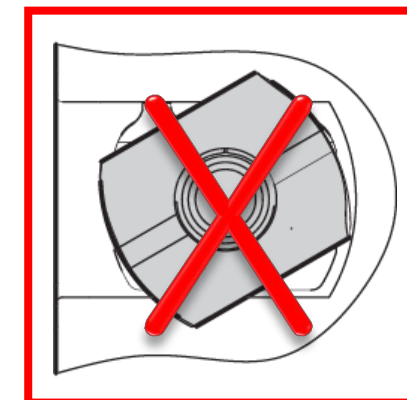
High Voltage Y



Low Voltage YY



For reference

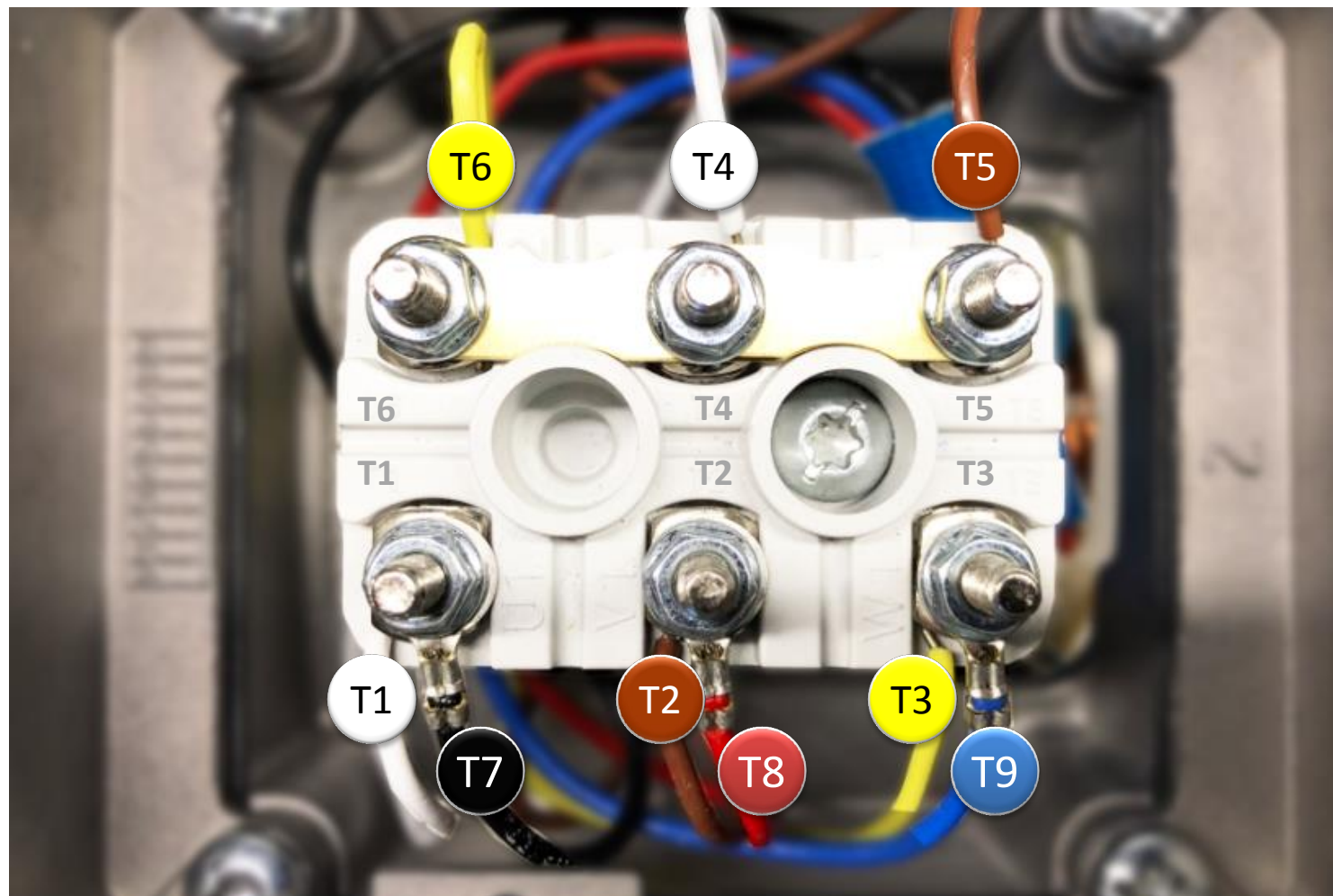


Use care when installing the nuts to so that the terminal washers do not shift out of place.



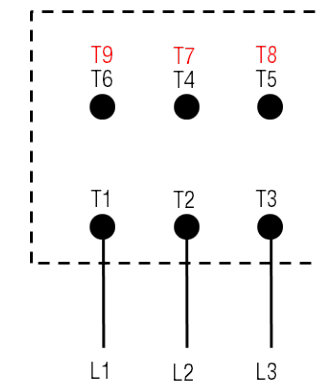
## Service Series – Changing Stator Voltage

Inspect the terminal and wires for any damage and to ensure no wires are crimped or improperly placed



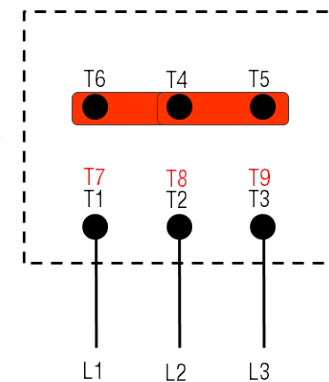
### Step 9

High Voltage Y

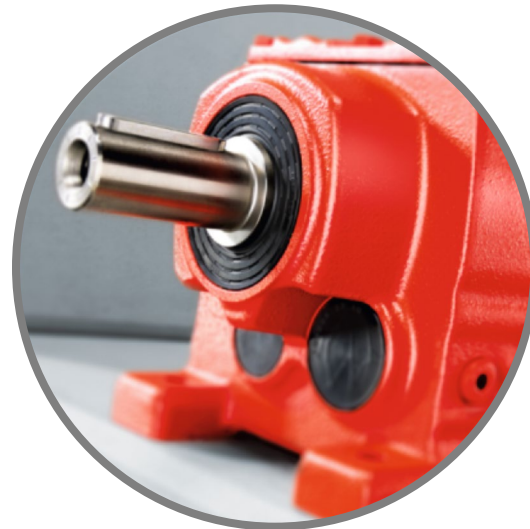
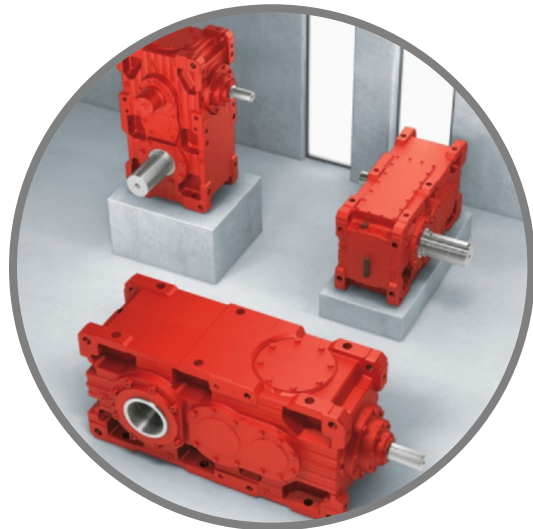


For reference

Low Voltage YY



# THANK YOU!



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