

#### **Strip Down Information**

# 54V SDS-Max Hammer



TRUE CORDED POWER







D25481K AC Combi



D25810K AC Chipper DCH481X2 DC Combi

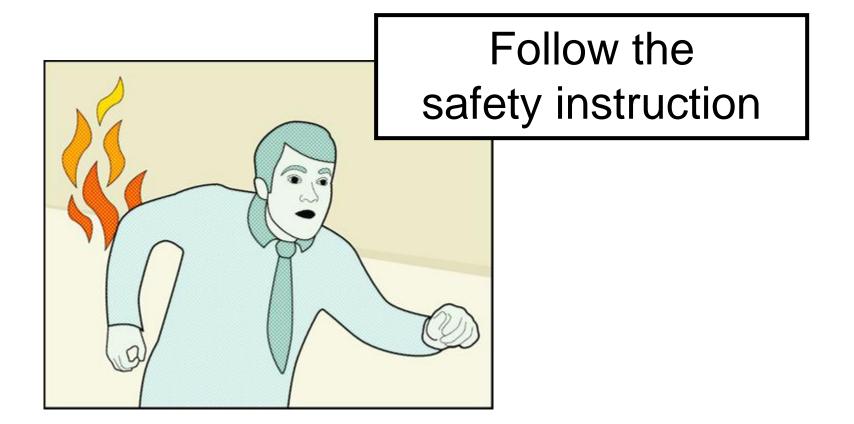




Brand	CAT No	Voltage	Impact Energy	Weight	Vibration
DEWALT	DCH481X2	54V	6.0J	6.5Kg	8.5m/s <sup>2</sup>
DEWALT	D25481K	AC	6.0J	5.5Kg	8.5m/s <sup>2</sup>



# Before repair and service





#### Safety Notes

#### Before attempting any repairs, the following should be observed,

- Ensure that the correct tool is used and only use good quality hand tools Ensure the work shop is clean and tidy.
- Always wear protective clothing, Overalls, safety gloves, safety glasses, safety hat/net etc.
- Before turning product on for analysis carry out a visual check for loose/broken parts including accessories, drill bits, chisels, cutters etc.
- Never repair a product whilst it is into a power supply, or a battery is connected.
- Remove accessories, drill bits, chisels, cutters etc.
- Ensure side handles function correctly.

#### After repair

Run product to check that it functions correctly, including all features.



# Before repair and strip down

## Carry out an visually check like:

Condition of contacts (unit charger and battery)

mode selector

leakages

condition of tool holder



# Before repair and strip down

## Carry out an functionality check like:

hammer mechanism

modes

reverse mode

measure the unload current

measure the capacity of batteries

check condition of charger (use the charger to charge a obviously good battery and measure the capacity of the battery



# Legend of Icons

	ENGLISH	GERMAN	ITALIAN	FRENCH	SPANISH	PORTUGUESE	DUTCH
	CHECK	ÜBERPRÜFEN	CONTROLLARE	CONTROLER	COMPROBAR	VERIFIQUE	CONTROLEREN
Co Fortier	CUT / REMOVE	Entfernen / TRENNEN	TAGLIARE/RIMUOVERE	Couper / Enlever	Cortar/ quitar	Cortar / Remover	SNIJ / VERWIJDER
ON	SWITCHON	ANSCHALTEN	ACCENDERE	ALLUMEZ	ENCENDER	LIGAR	AANSCHAKELEN
	TURN CLOCKWISE	DREHEN IN UHRZEIGERSINN	GIRARE IN SENSO ORARIO	TOURNEZ DANS LE SENS DES AIGUILLES D'UNE MONTRE	GIRO DERECHA	GIRAR NO SENTIDO HORARIO	DRAAI RECHTSOM
	MOVE IN THIS DIRECTION	IN RICHTUNG BEWEGEN	MUOVI IN DIREZIONE	BOUGEZ DANS CETTE DIRECTION	DIRECION DE LA FLECHA	AVANÇAR NESSA DIREÇAO	BEWEEG IN DE RICHTING VAN DE PIJL
<b>~</b>	CORRECT	RICHTIG	CORRETTO	CORRECT	CORRECTO	CORRECTO	GOED
	FUNCTION TEST	FUNKTIONSTEST DURCHFÜHREN	ESEGUIRE IL TEST	TEST FONCTIONNEL	PRUEVA DE FUNCIONAMIENTO	TESTE DE FUNCIONAMENTO	FUNCTIETEST
<b>N</b>	LIFT OVER	ANHEBEN	SOLLEVARE	SOULEVEZ	LEVANTAR	LEVANTAR SOBRE A	OPHEFFEN
2013 33- 59	DATE CODE	HERSTELLUNGS- DATUM	DATA DI PRODUZIONE	DATE CODE	FECHA FABRICACION	CÓDIGO DE PRODUÇÃO	DATUM CODE



# Legend of Icons

	ENGLISH	GERMAN	ITALIAN	FRENCH	SPANISH	PORTUGUESE	DUTCH
1;2;3;4	SEQUENCE	REIHENFOLGE	SEQUENZA	SEQUENCE	SECUENCIA	SEQUÊNCIA	VOLGORDE
	DISCONNECT	TRENNEN	SCOLLEGARE	DEBRANCHEZ	DESCONECTADO	DESLIGAR	ONTKOPPELEN
	SERVICE TOOL	SERVICE WERKZEUG	UTENSILE DI SERVIZIO	OUTILLAGE DE SERVICE	HERRAMIENTAS DE SERVICIO	FERRAMENTAS DE SERVIÇO	SERVICE GEREEDSCHAP
<b>(9)1)</b>	LISTEN	HÖREN	ASCOLTARE	ECOUTEZ	ESCUCHAR	OUVIR	LUISTEREN
2	HOW DOES IT WORK?	WIE FUNKTIONIERT DAS?	COME FUNZIONA?	COMMENT CELA FONCTIONNE?	¿ COMO FUNCIONA?	COMO FUNCIONA?	HOE WERKT DIT?



# Legend of Icons









	ENGLISH	GERMAN	ITALIAN	FRENCH	SPANISH	PORTUGUESE	DUTCH
)	USE STATIC PROTECTION DEVICE	ANTISTATIK MATTE BENUTZEN	USARE I DISPOSITIVI ANTISTATICI	UTILISEZ UN EQUIPEMENT DE PROTECTION ANTISTATIQUE	USE PROTECCION ANTIESTATICA	USE PROTEÇÃO ESTATICA	GEBRUIK ANTI - STATISCH MATERIAAL
	TORX HEAD SCREWDRIVER	TORX- SCHRAUBEN- DREHER	CACCIAVITE TORX	TOURNEVIS TORX	DESTORNILLADOR TORX	CHAVE TORX	TORX SCHROEVENDRAAI ER
	FLAT SCREWDRIVER	SCHLITZ- SCHRAUBEN- DREHER	CACCIAVITE PIATTO	TOURNEVIS PLAT	DESTORNILLADOR PLANO	CHAVE DE FENDA	PLATTE SCHROEVENDRAAI ER
	USE A PRESS	EINE PRESSE VERWENDEN	USARE LA PRESSA	UTILISEZ UNE PRESSE HYDRAULIQUE	USE PRENSA	USE UMA PRENSA	GEBRUIK EEN WERKPLAATSPERS
	TURN COUNTER CLOCKWISE	DREHEN GEGEN UHRZEIGERSINN	GIRARE IN SENSO ANTIORARIO	TOURNEZ DANS LE SENS INVERSE DES AIGUILLES D'UNE MONTRE	GIRO IZQUIERDA	GIRAR SENTIDO ANTI- HORARIO	DRAAI LINKSOM



## Visually check





## Visually check



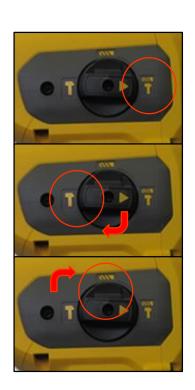


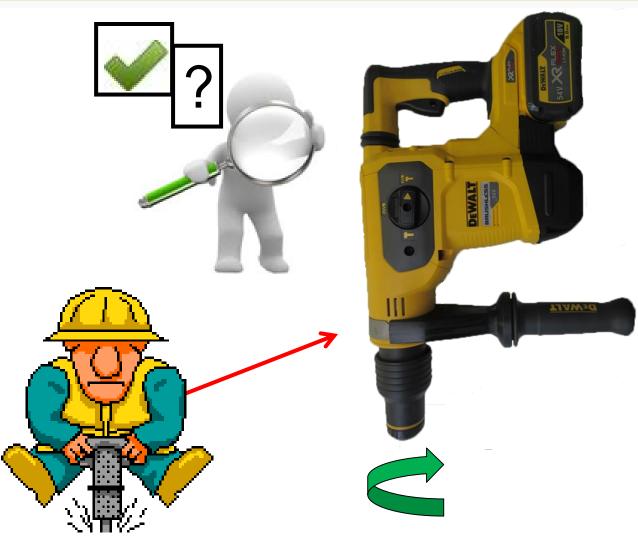
#### Visually check





## Functionally check







# Disassembling Front Housing



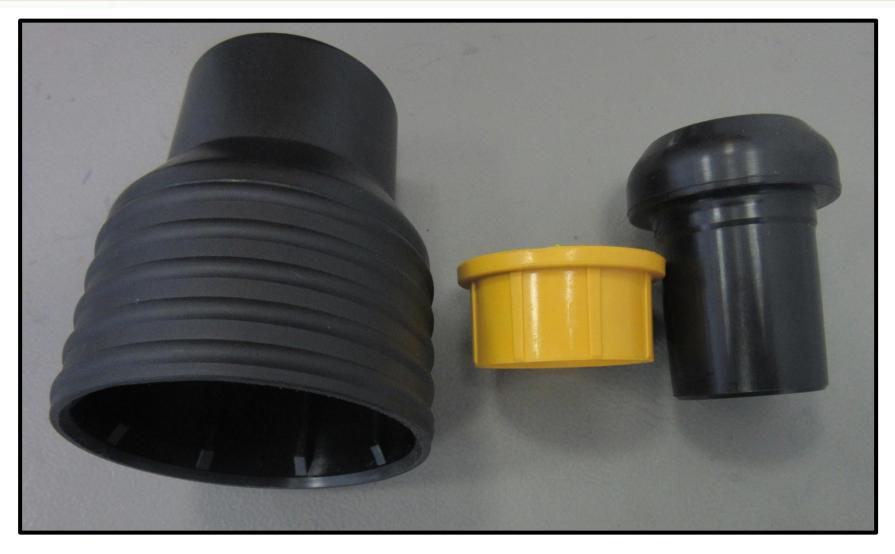
## Disassembling











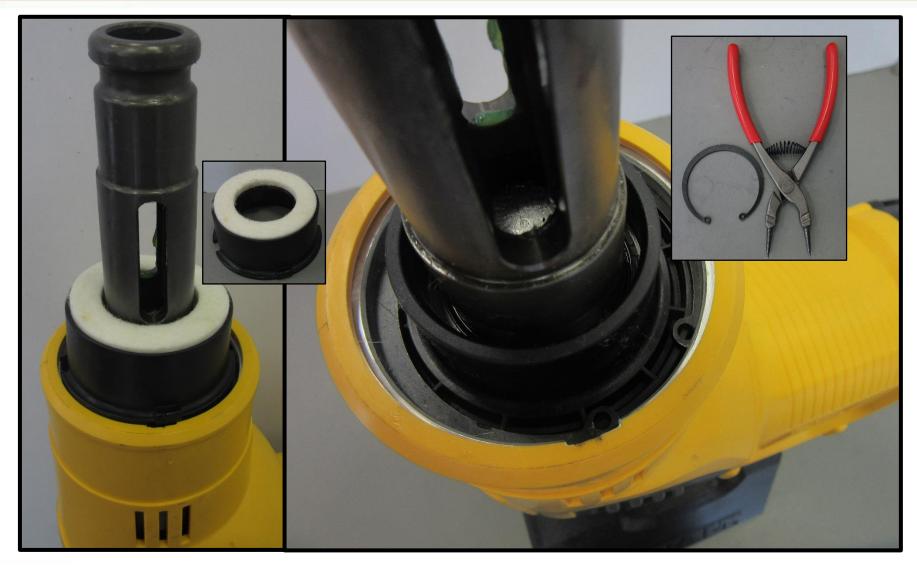




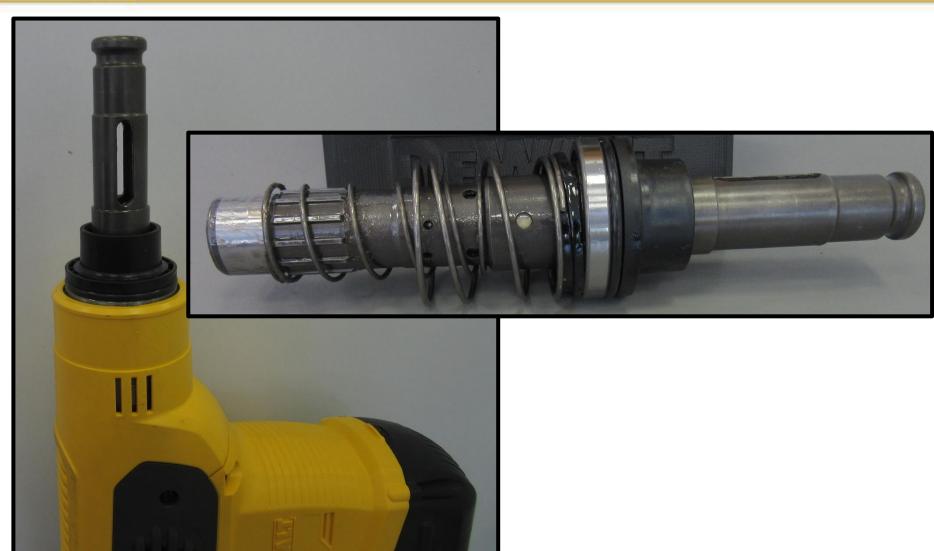




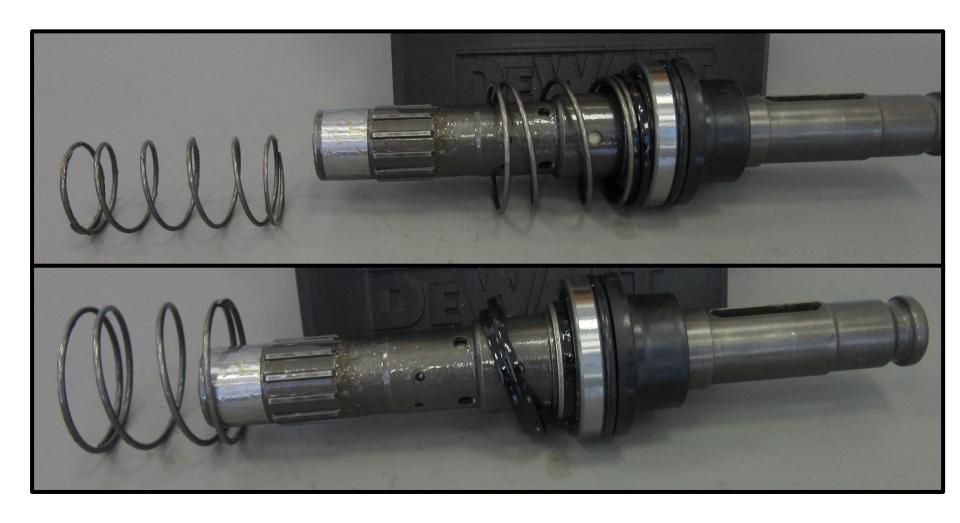




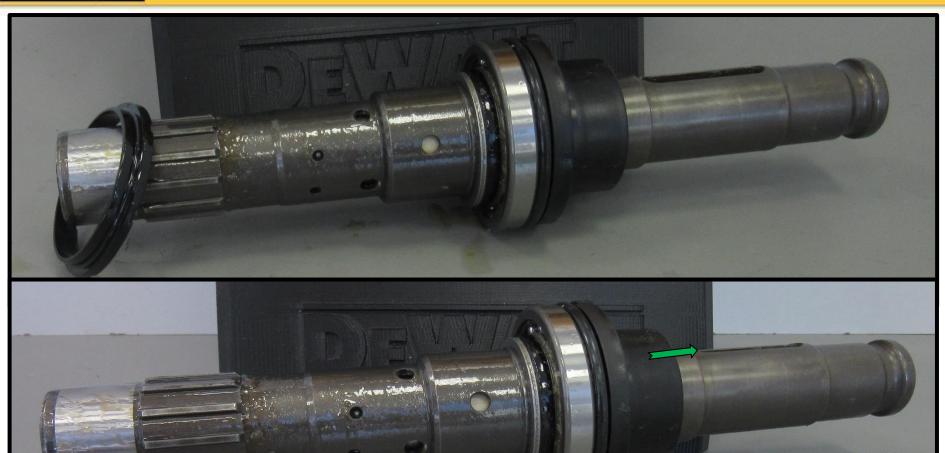
















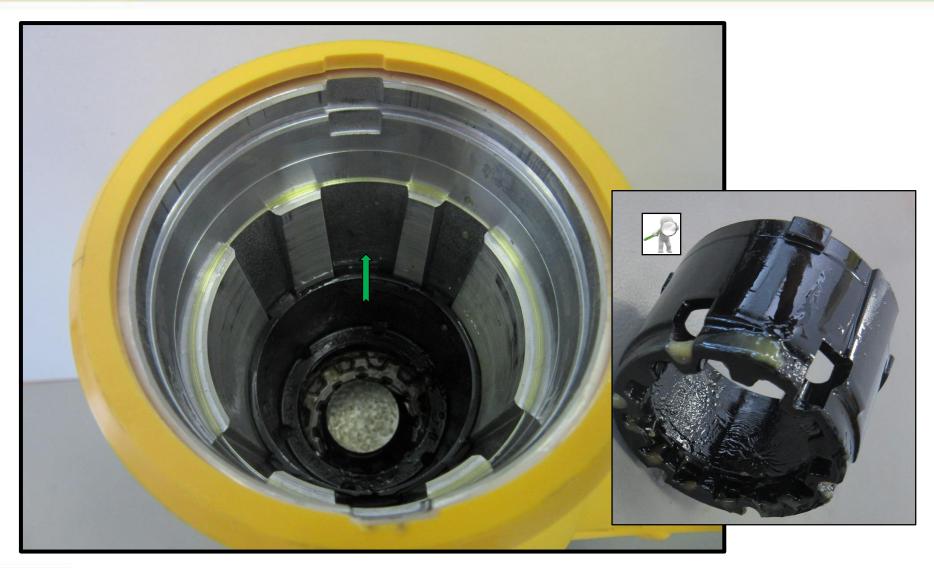








#### Disassembling spindle / gear components





#### Disassembling spindle / gear components

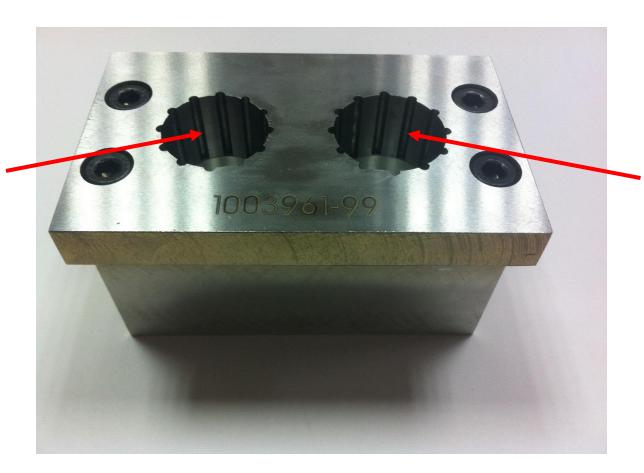






#### SERVICE TOOLING PART 1003961-99

THIS SIDE FOR COMBI UNITS DCH481 AND D25481



THIS SIDE FOR CHIPPER UNITS D25810 AND D25811



#### TOP TOOLING TO REMOVE TOP HALF OF SPINDLE

#### SERVICE TOOLING PART 1003962-99 FOR SDS MAX UNITS



SERVICE TOOLING PART 1003963-99 FOR 17MM HEX UNITS(NOT EUROPE)











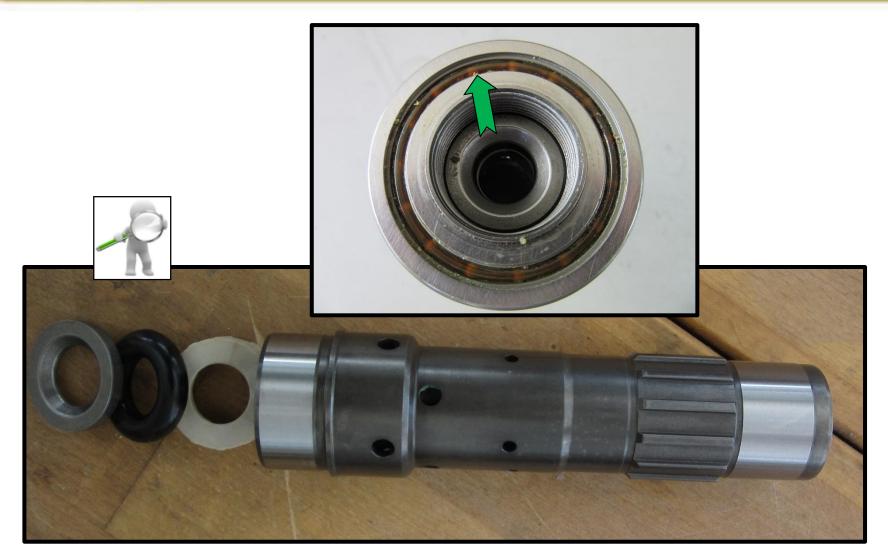




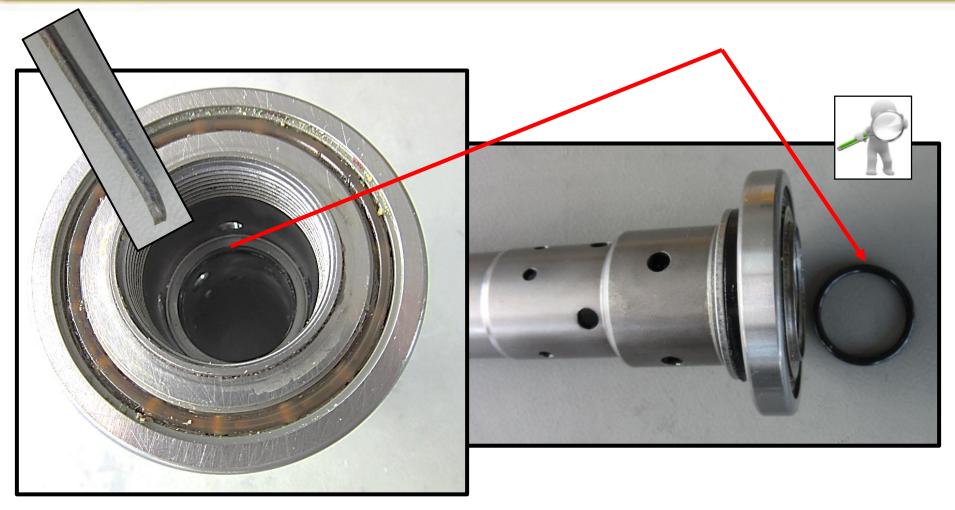
Release torque up to 200Nm

USE IMPACT WRENCH DCF899 OR SIMILAR

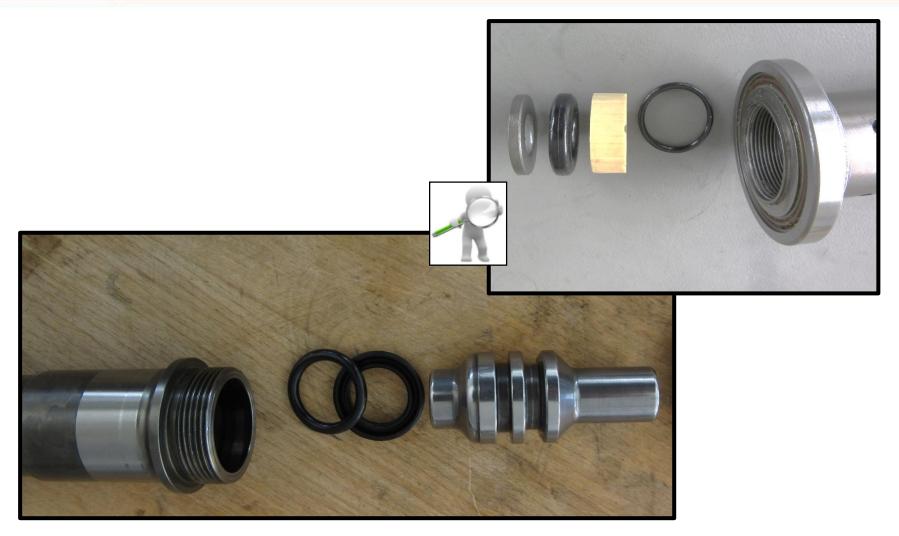




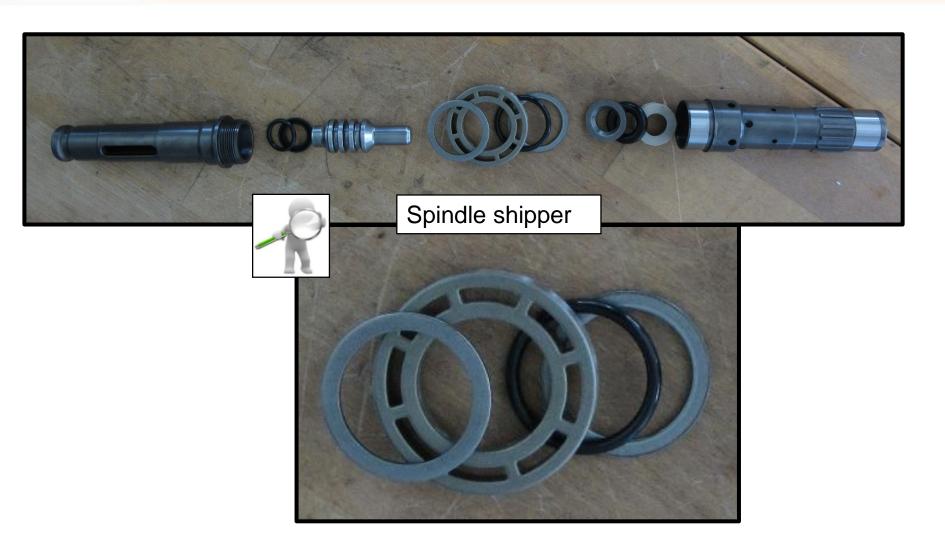














## Assembling Spindle



#### SERVICE TOOLING 1003964-99 AND 1003965-99























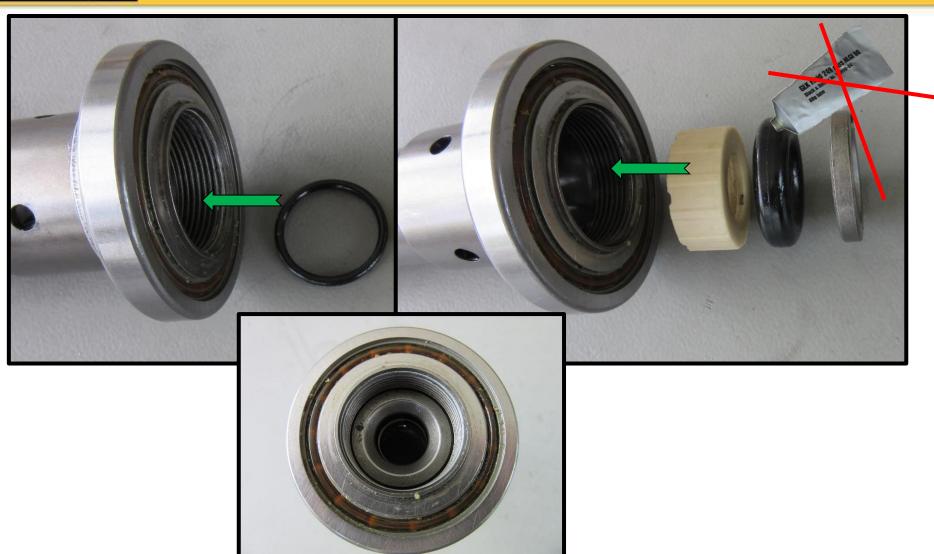




































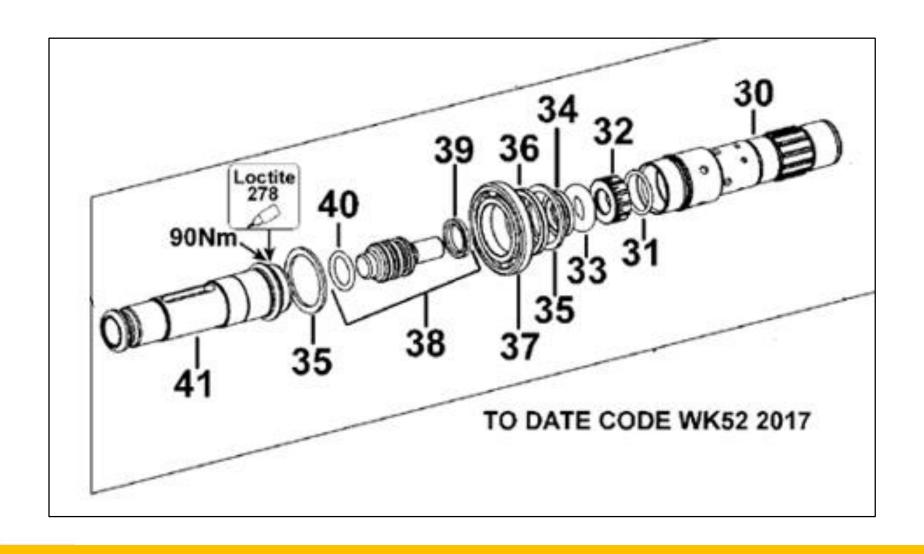










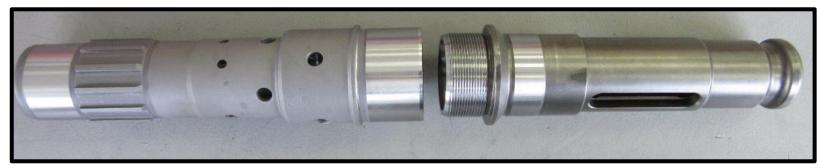


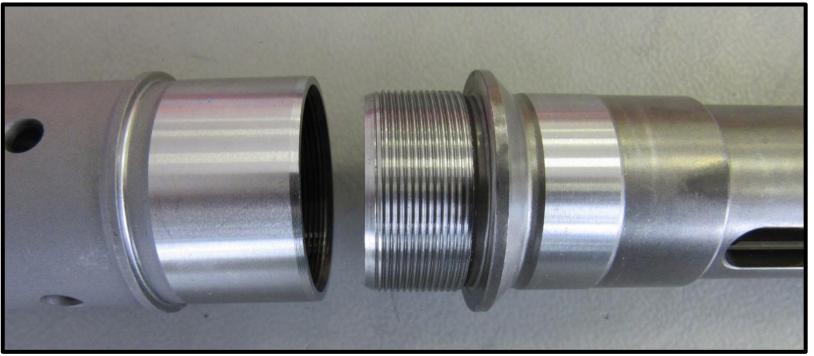


### Combi Units

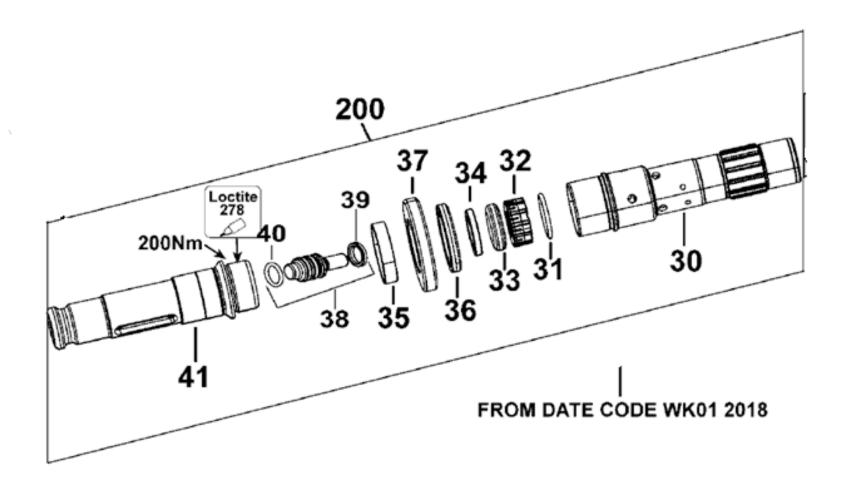


#### Spindle design Combi from WK01 2018











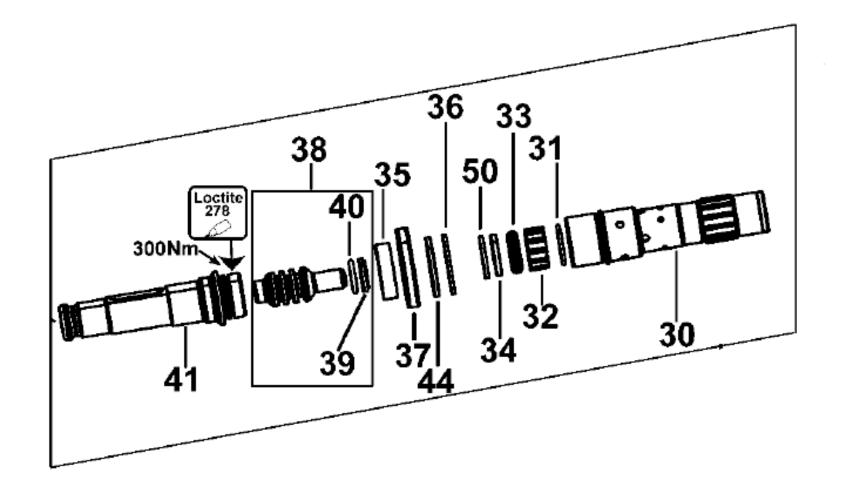
### Chipper Unit



#### Spindle design shipper









# Disassembling Gear Housing

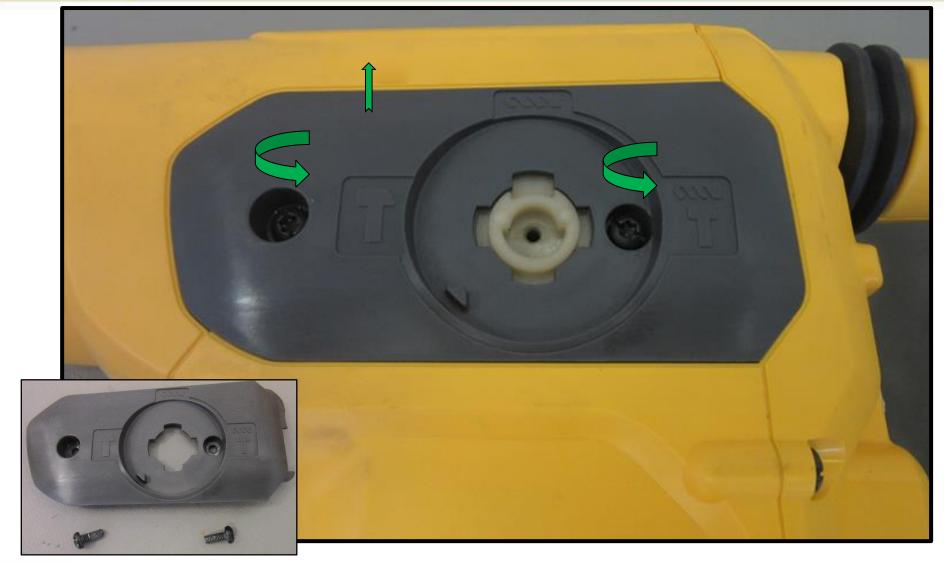








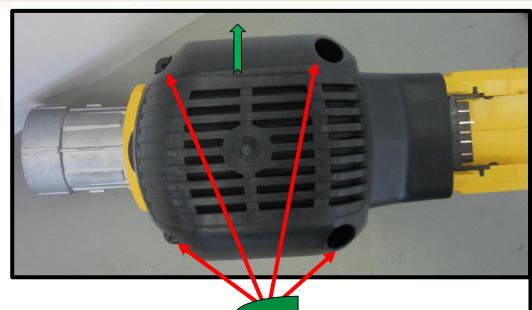






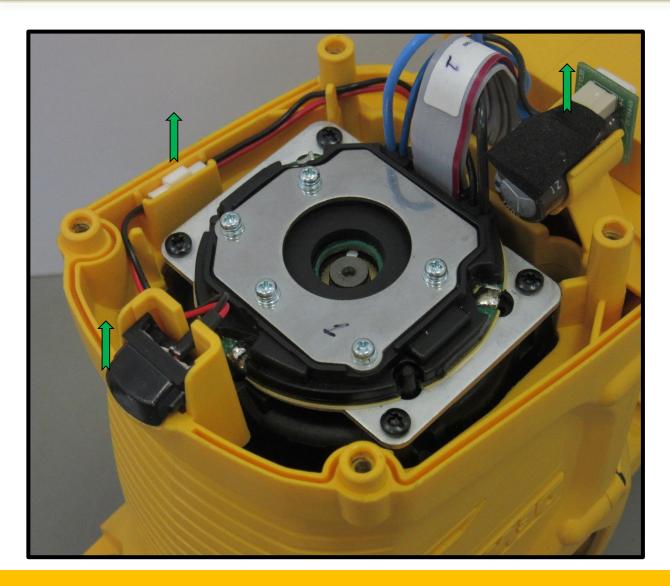




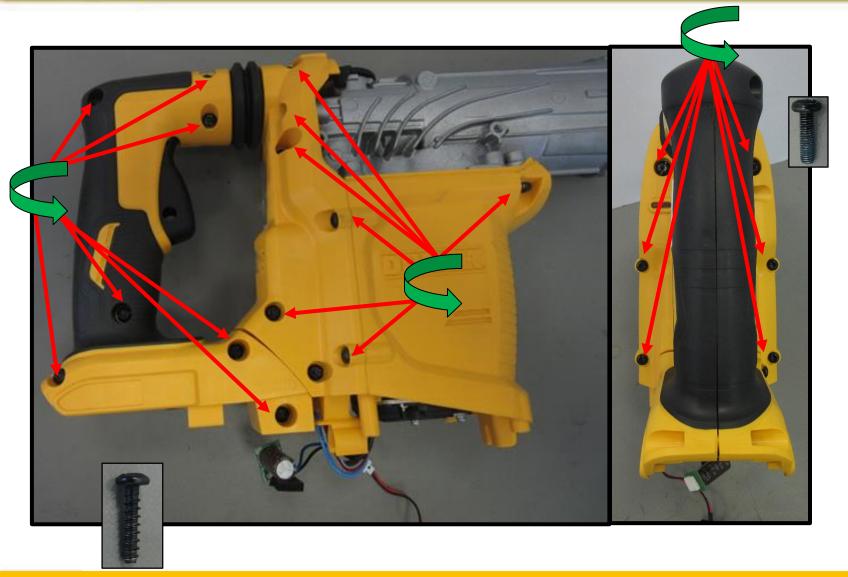




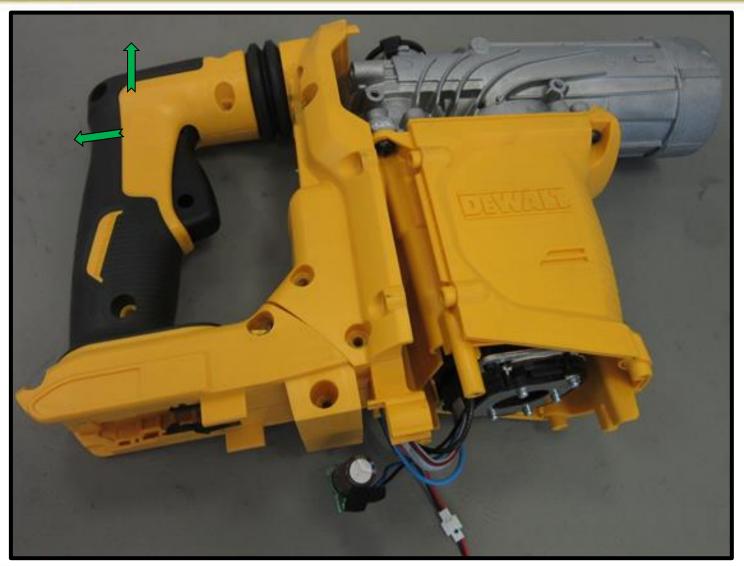






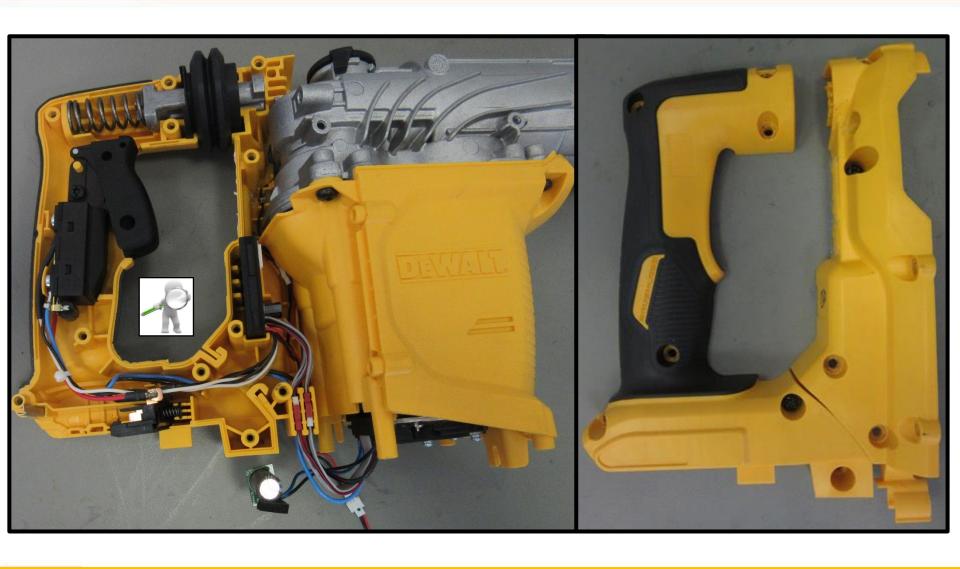






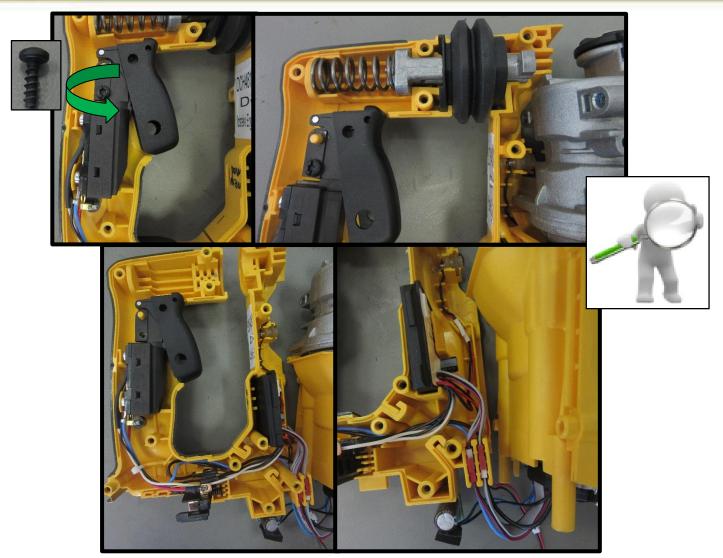


#### Disassembling housing/electrical components



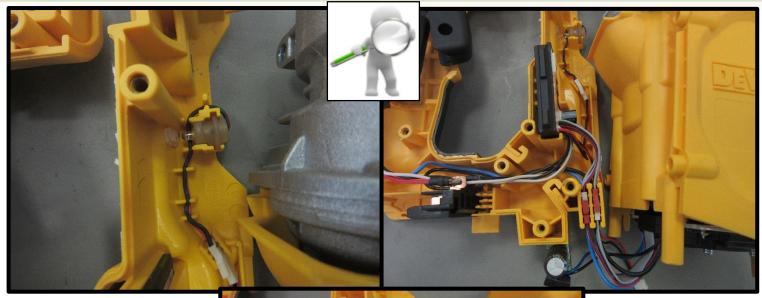


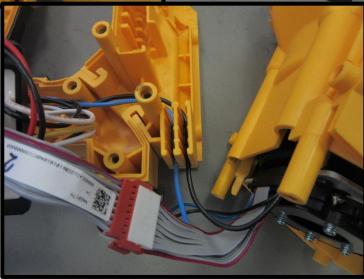
#### Disassembling housing/electrical components





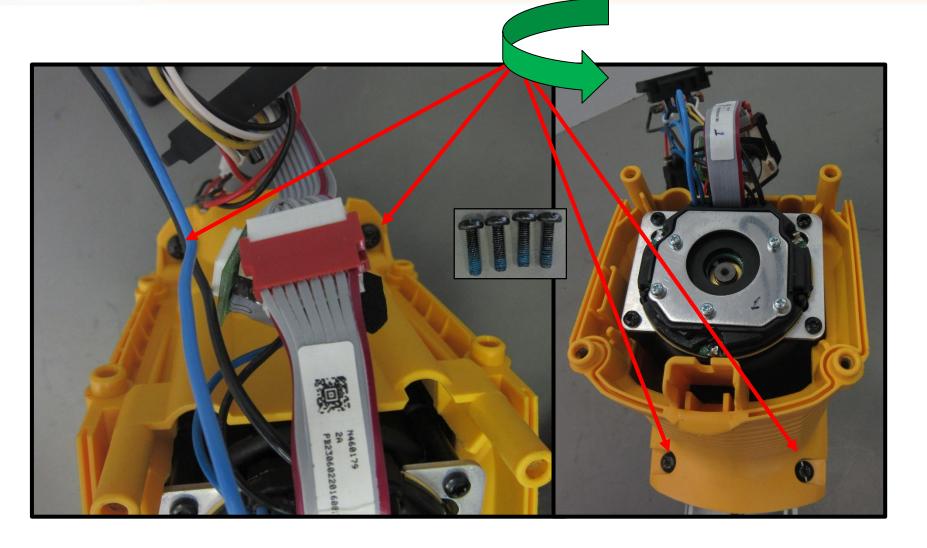
#### Disassembling housing/electrical components







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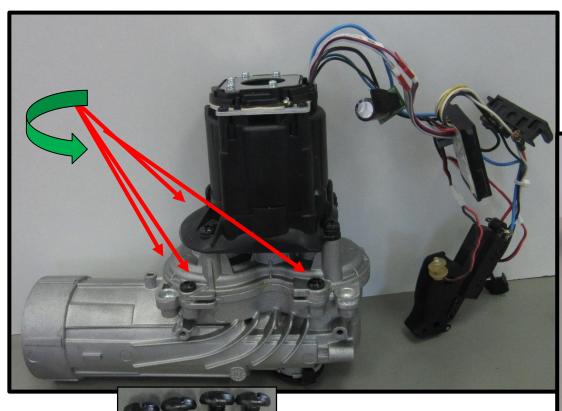


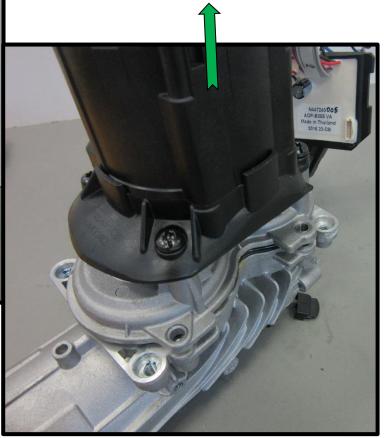
### Disassembling housing/electrical components



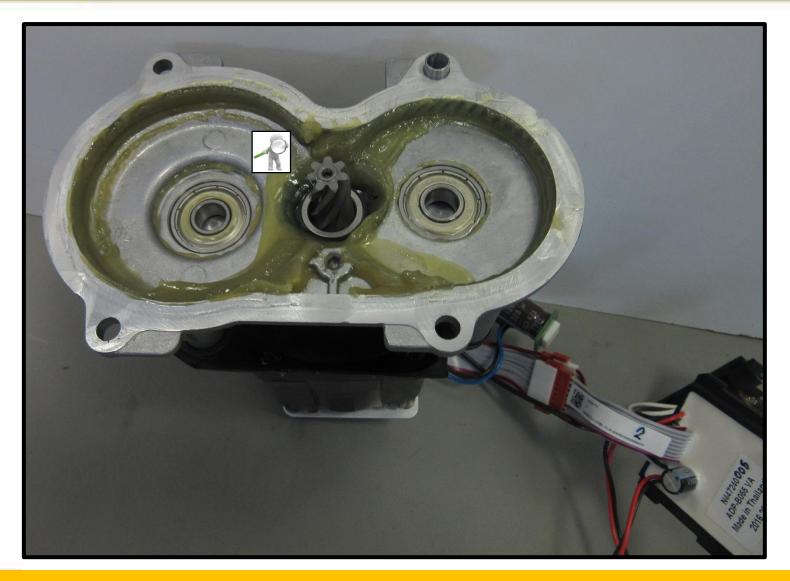




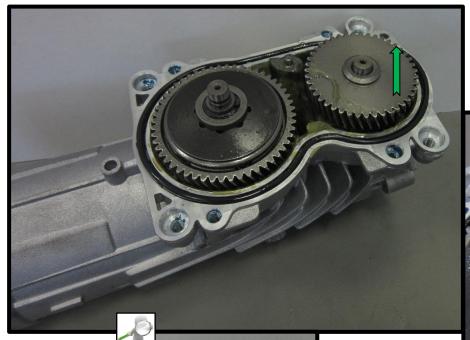


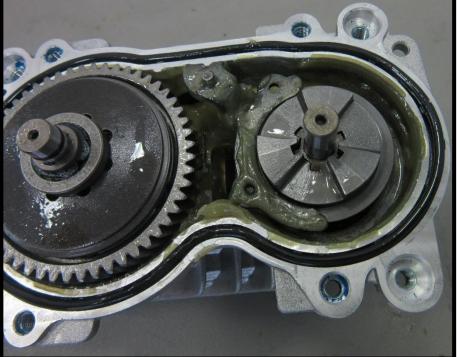




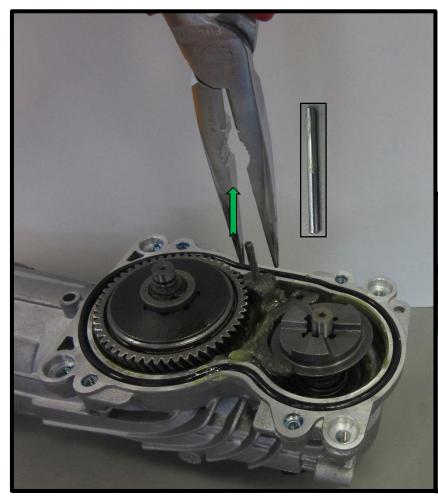


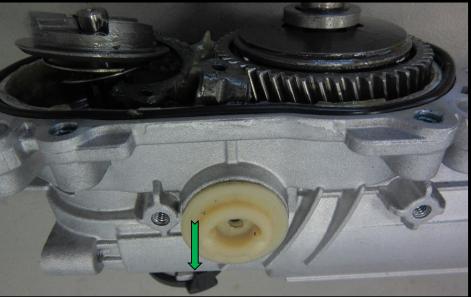




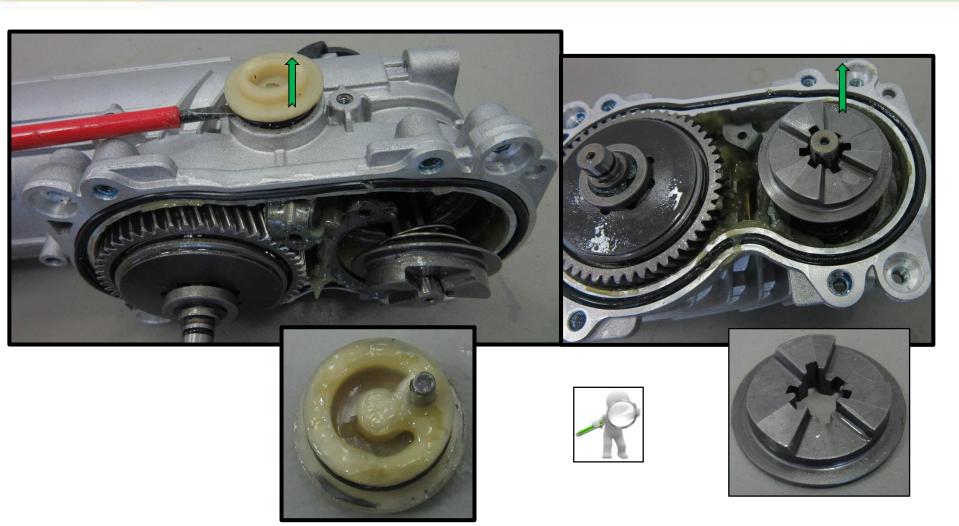




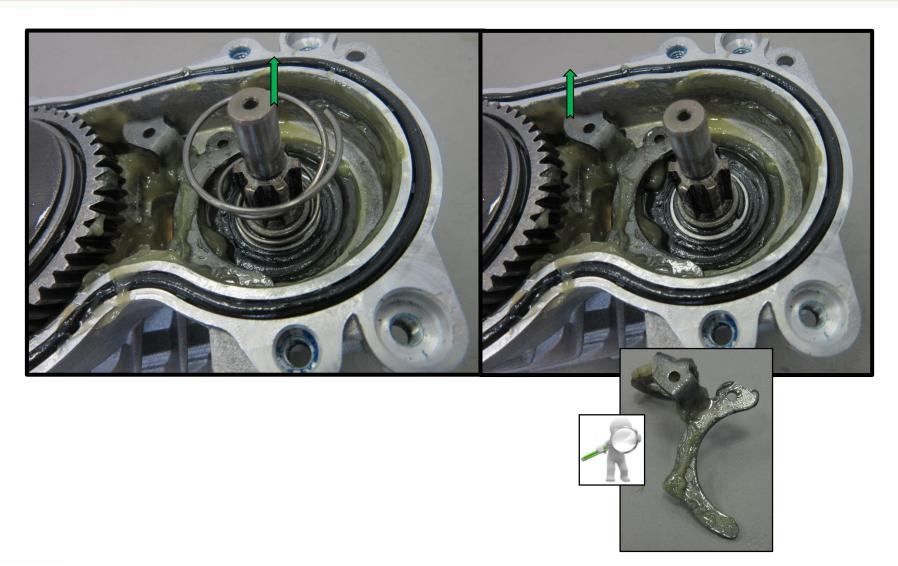




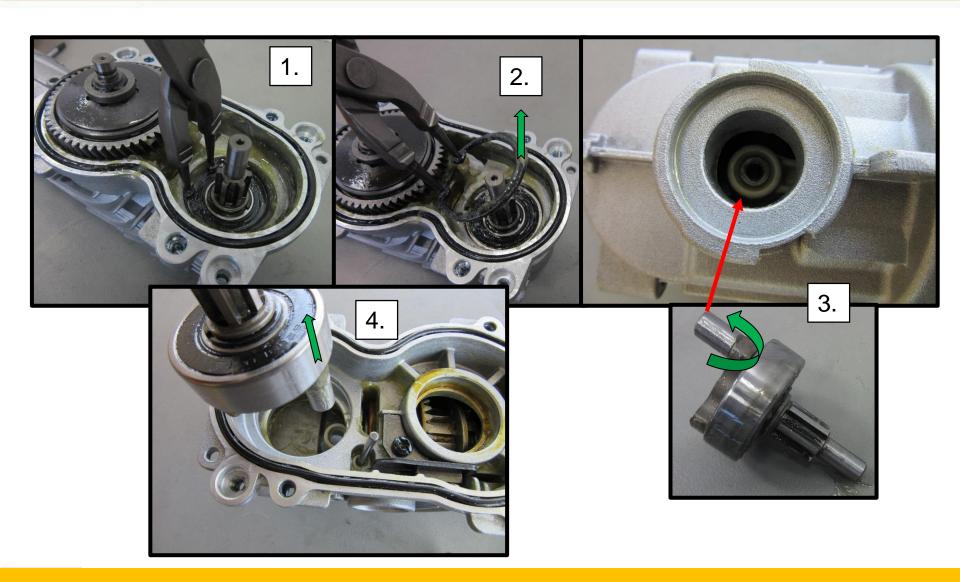




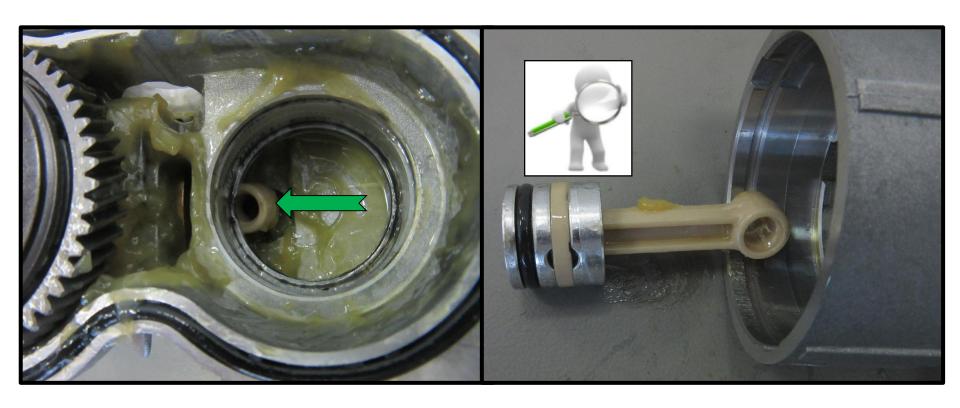




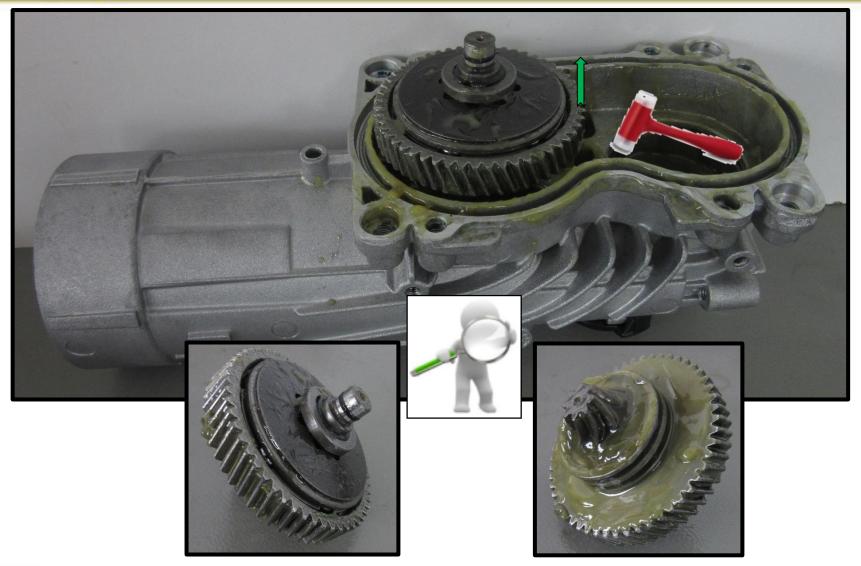




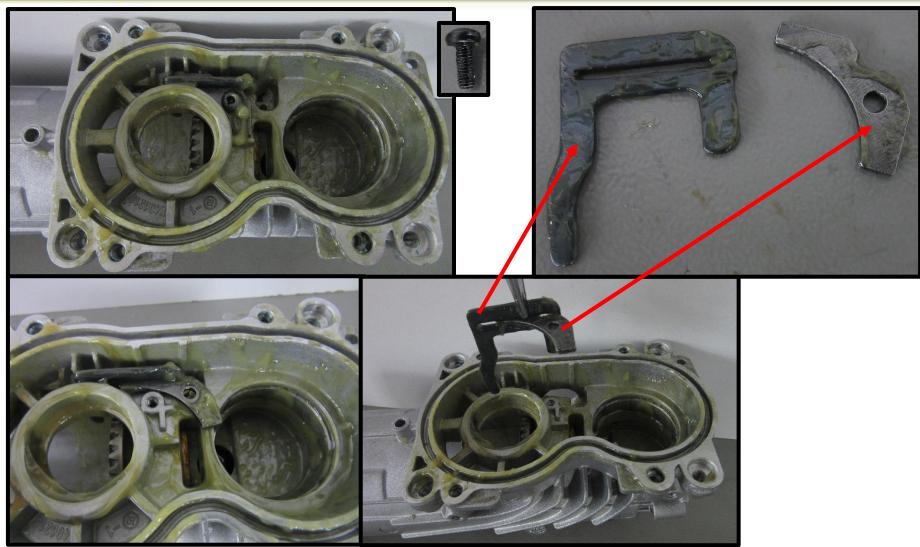




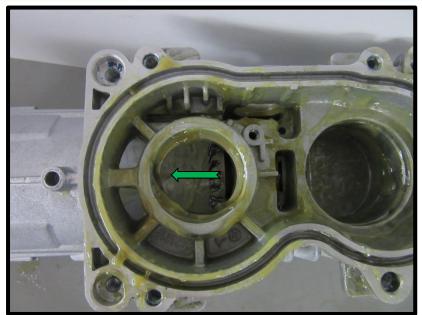


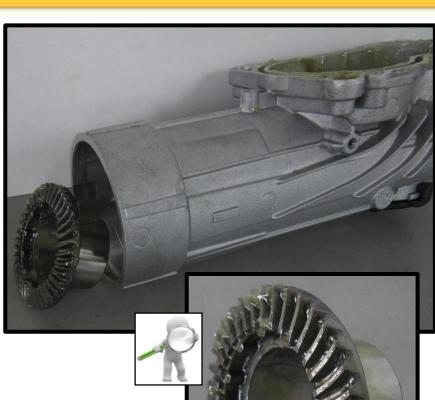






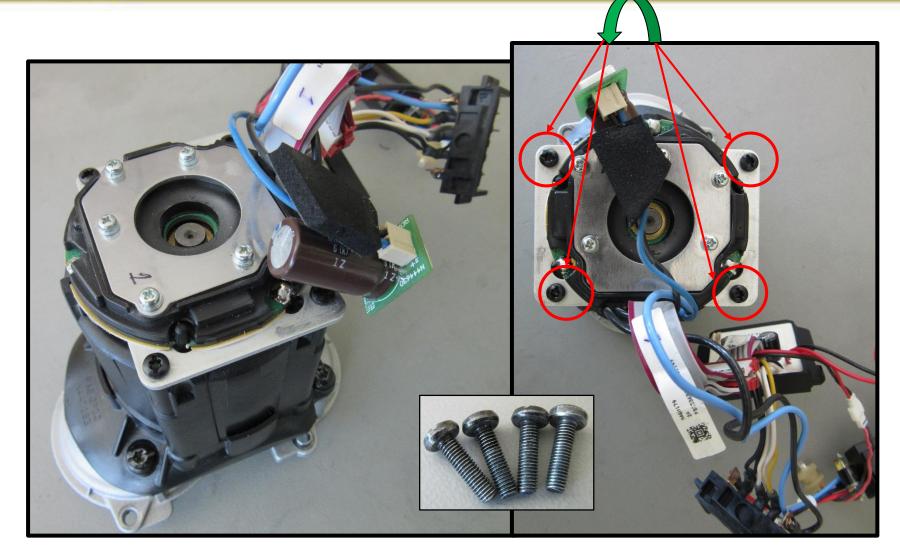






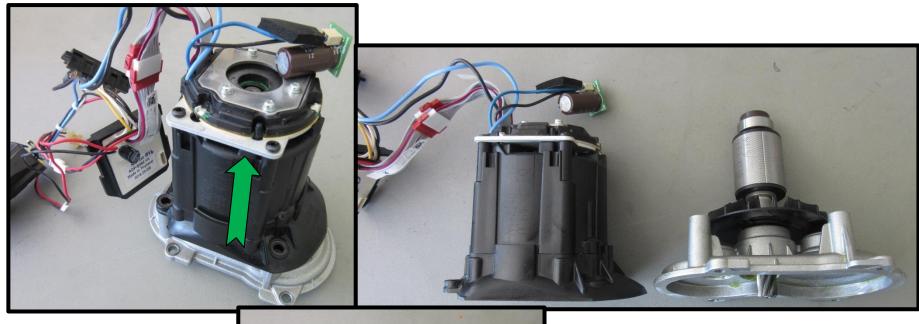


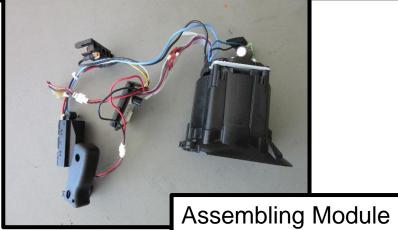
### Disassembling electrical module





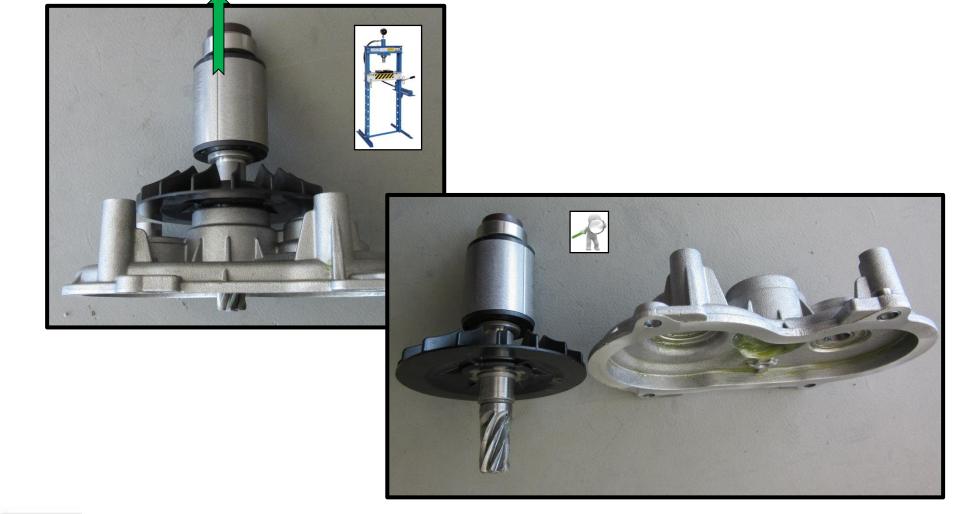
### Disassembling electrical module





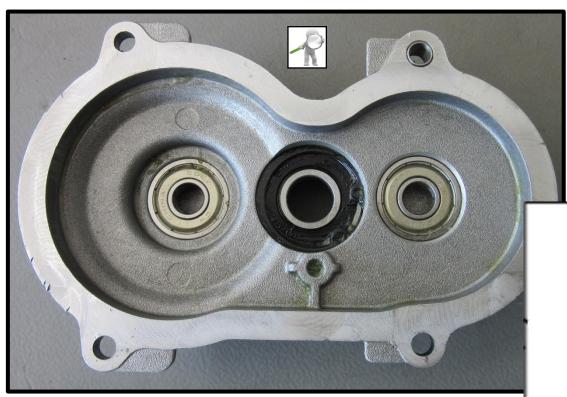


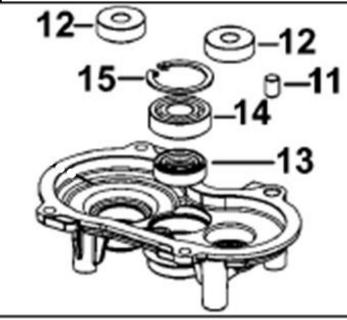
### Disassembling armature





### Disassembling bearings





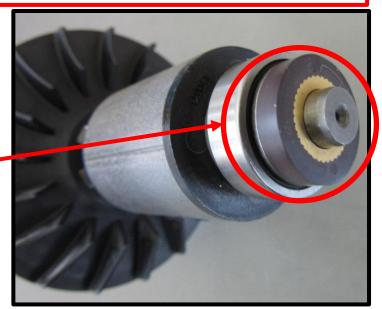


### **Very important information**

### Do not exchange the module without the magnet being checked first.

If the unit comes into the service and it will not work at all, or particularly it spins a quarter of a turn only, the four pole ferrite-magnet ring must be checked regarding the correct polarity.





Note: Some flex Volt units are complete S/A – Other units have a separate rotor which is when this check needs to take place



#### **Very important information**

Detector foil makes magnetic fields visible



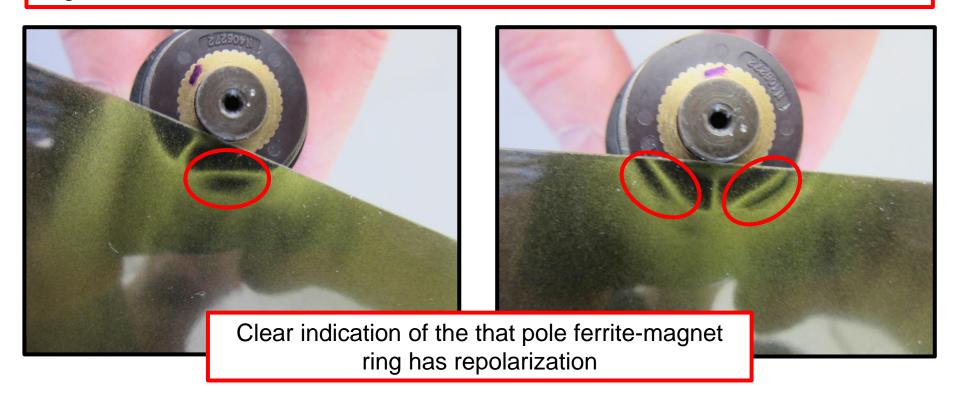
Use a detector foil to check the four single areas on the ferrite-magnet ring between the four red lines. If the picture shows a very clear border as shown below, the four pole ferrite-magnet ring will be ok. All four invisible boundaries must be checked.





### **Very important information**

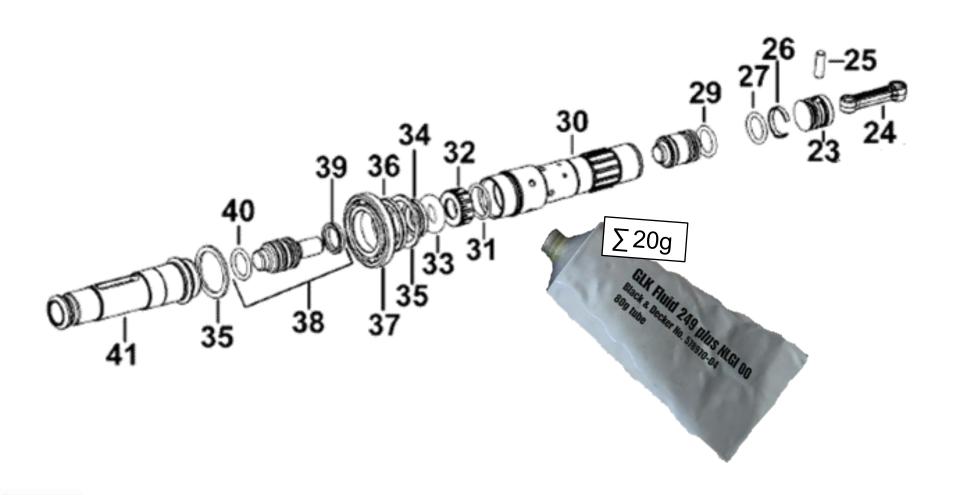
If there is a line between the boundaries as shown below, a repolarization will have taken place, with the following consequences, the armature has been damaged and has to be replaced. It is mandatory that all areas of the four pole ferrite-magnet ring is checked for failure.



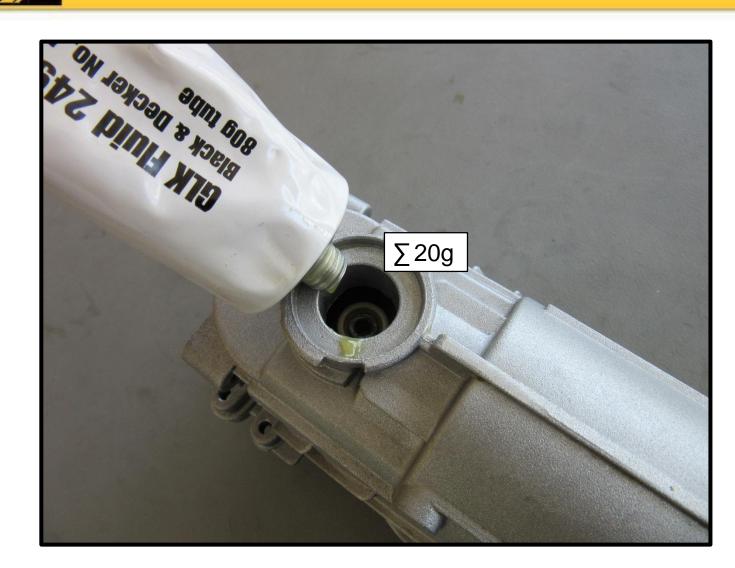


### Lubrication

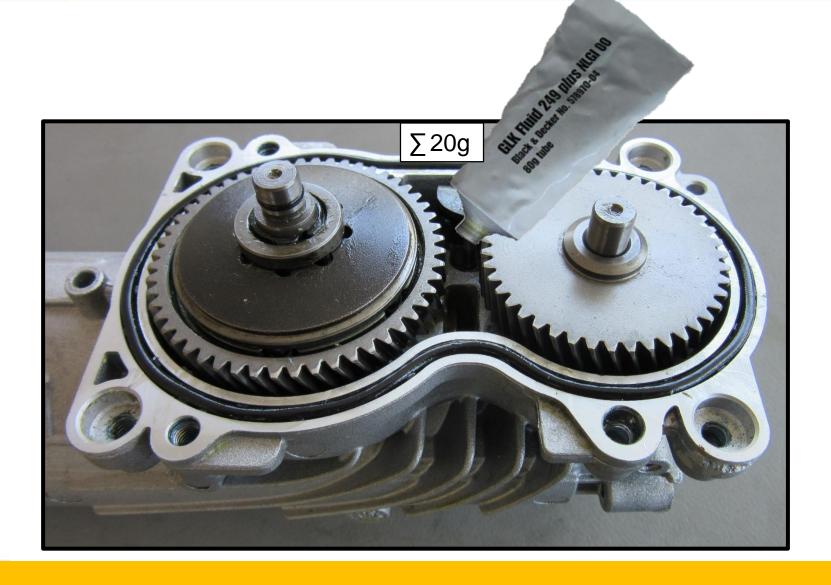
















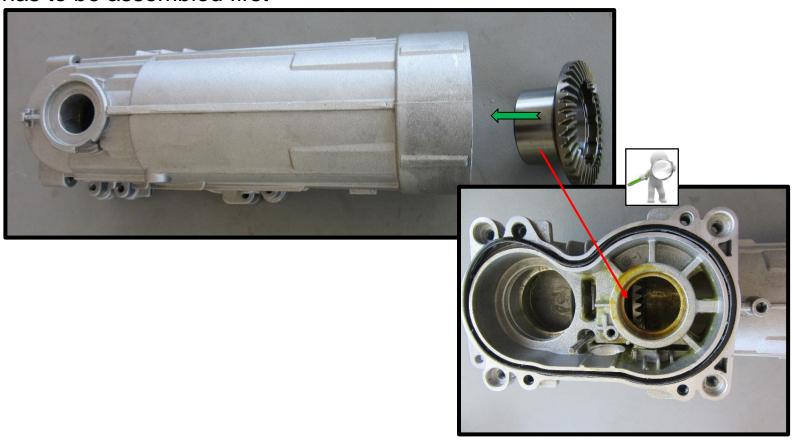


## Assembly Hints

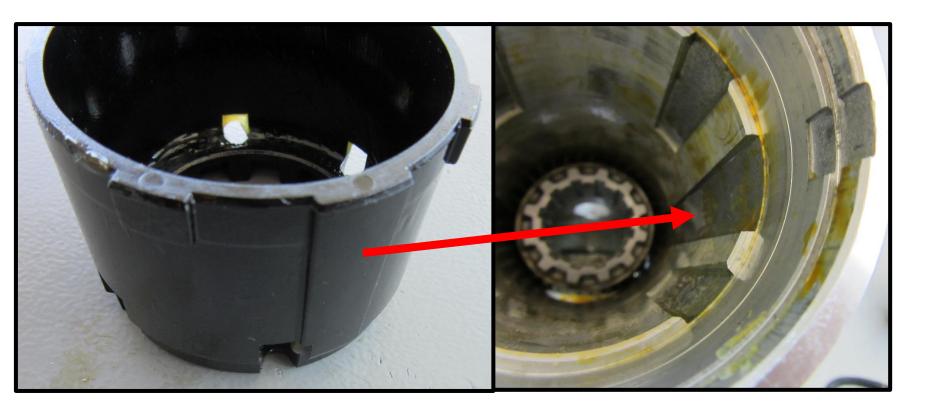


### Note:

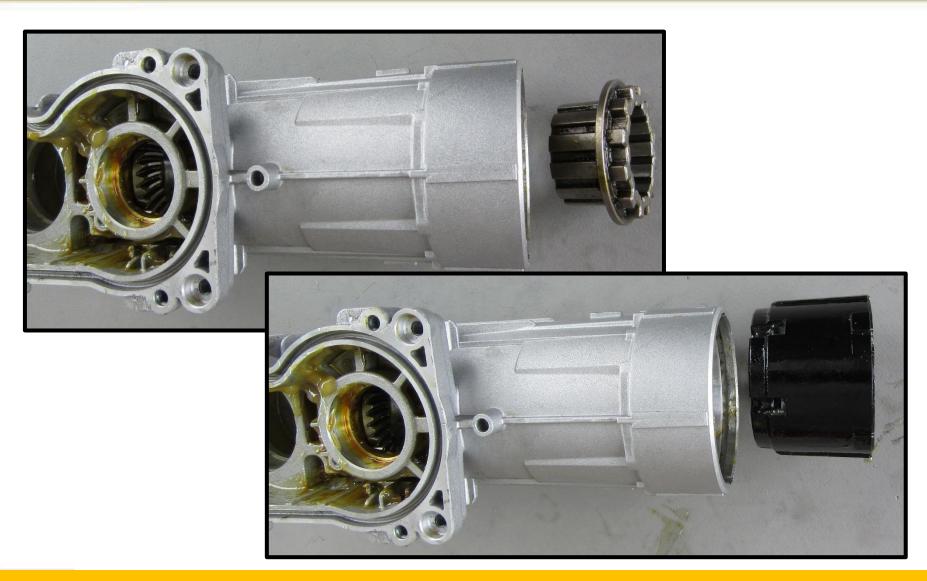
Before assembled mode selector components, the spindle assembling has to be assembled first



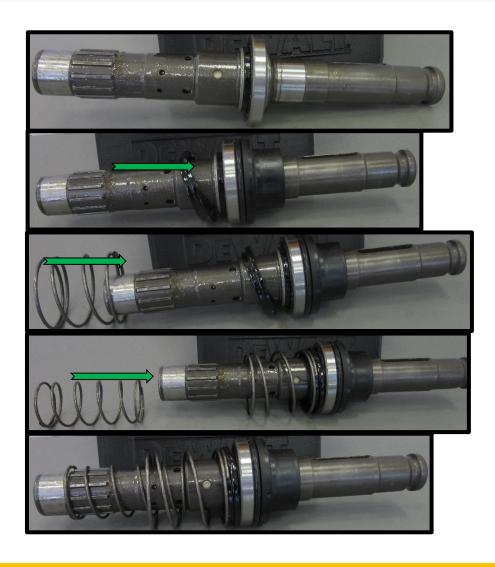












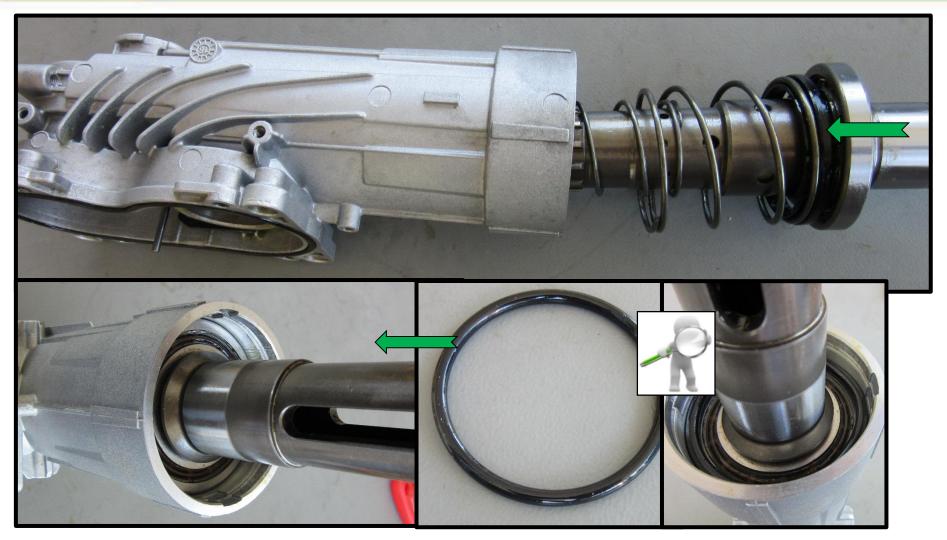




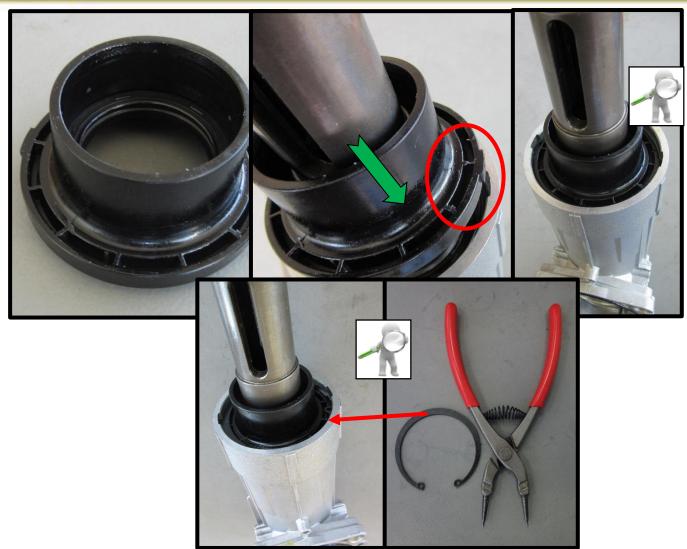




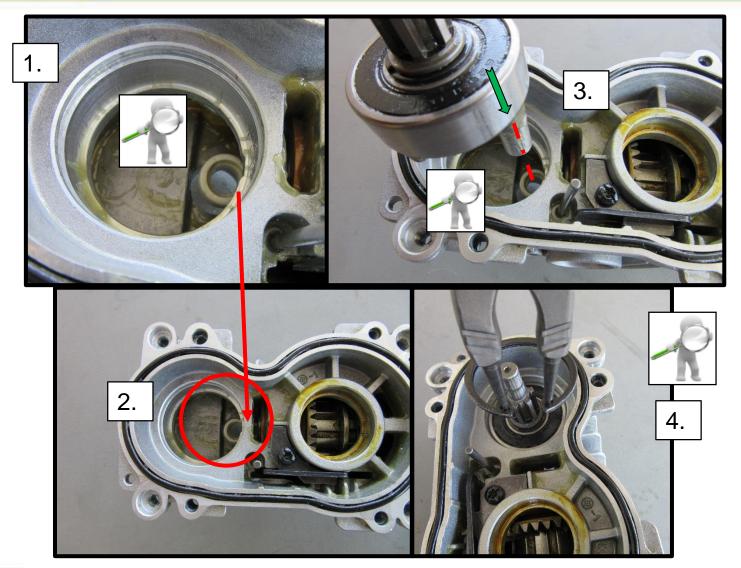




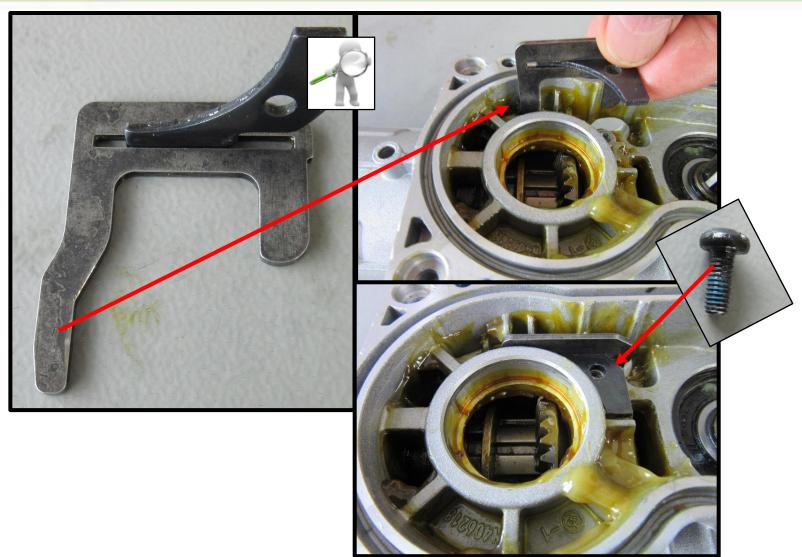




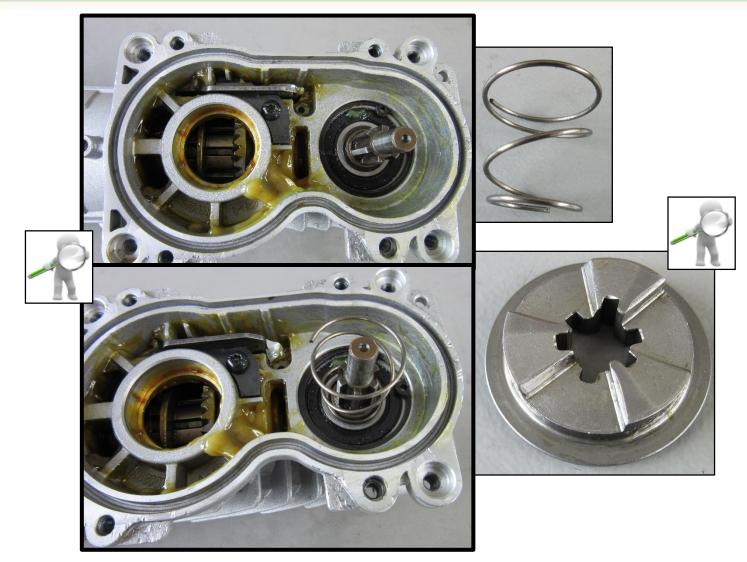




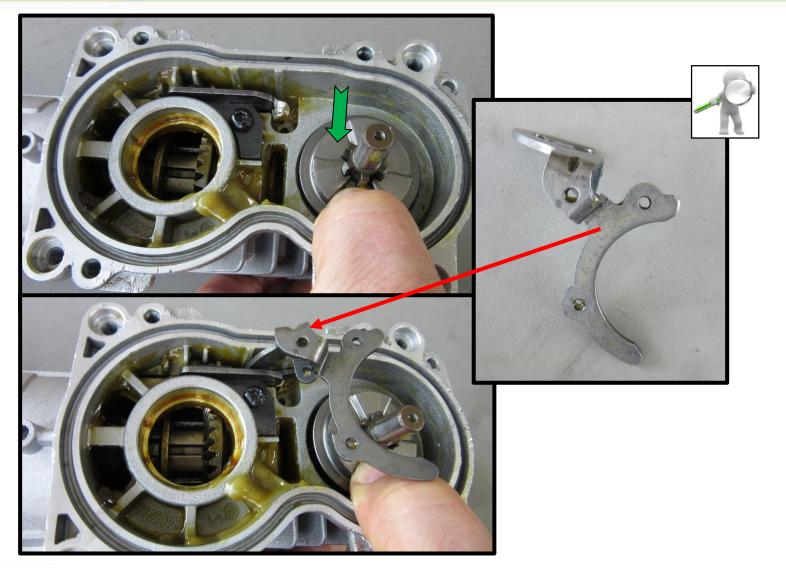




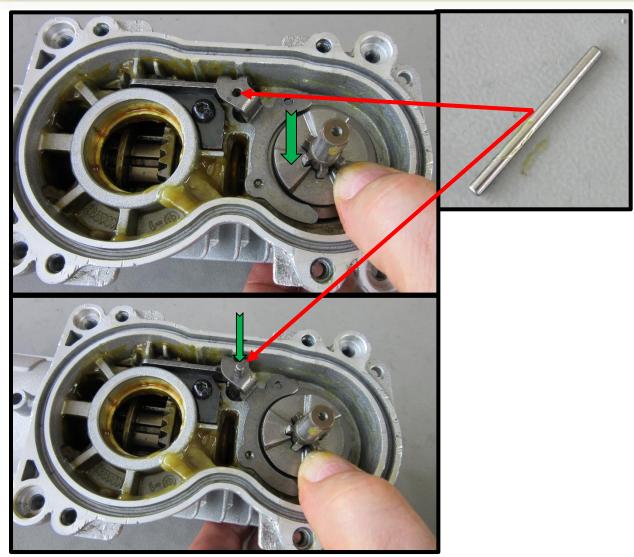




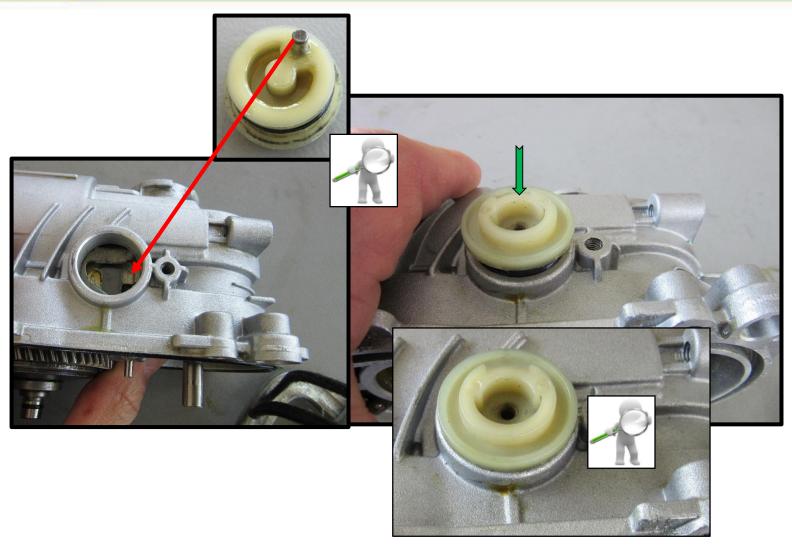




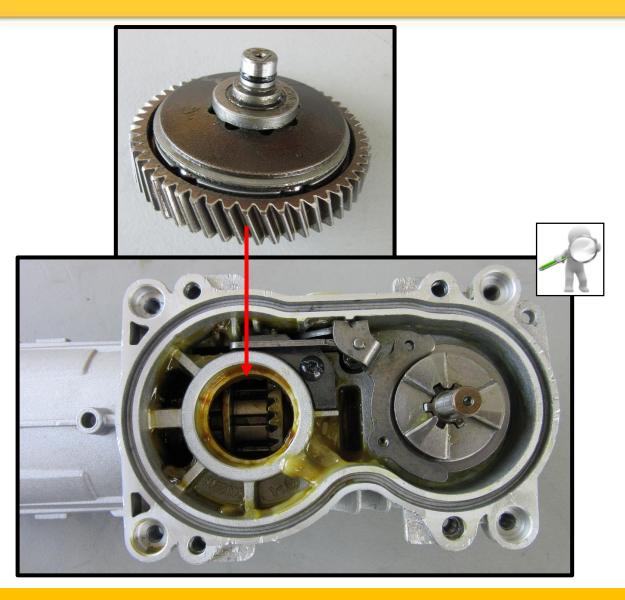




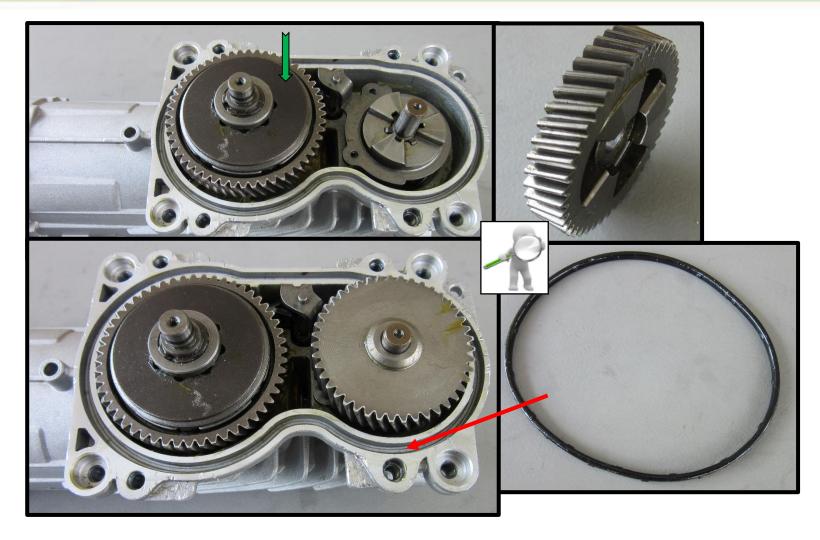




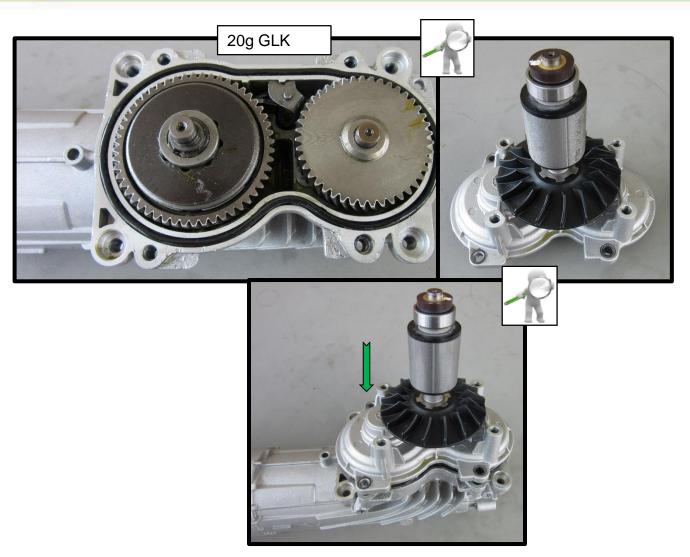




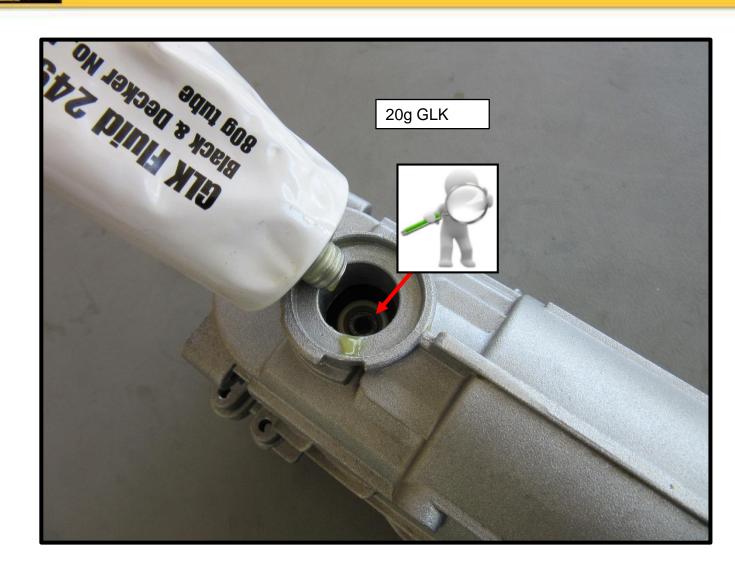






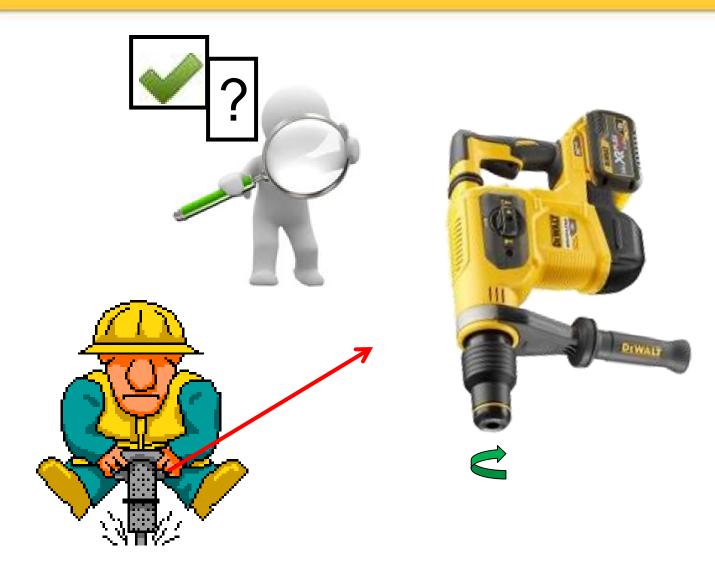






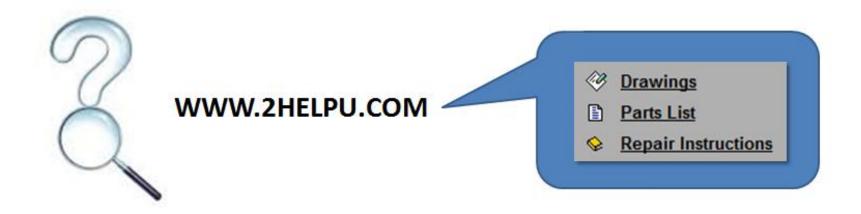


### Functionally check





### After repair











# Remember: the next check will be made by your customer

