

Original instructions.
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WARNING: Before operating the tool, read carefully the following instructions and the Safety Guide instructions.

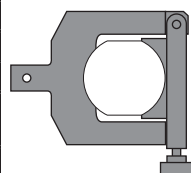
- To avoid damaging the tool during disassembly, use the recommended tools.
- Any repair on the motor shall be carried out in our workshops.

Meaning of the pictograms

	Left hand thread
	When reassembling, apply the recommended glue
	When reassembling, tighten to the required torque
	When reassembling, lubricate with the required grease

Specific tools

Description	part number
Special wrench of 49	6159609230
Special wrench of 56	6159603140
Gear ring disassembly tools	6159610110
Pin wrench	6158020110



Special wrench

The other tools are standard tools used in mechanical workshops.

Disassembly
1 - Disconnect the cables from the tool
2 - Disassembling the output shaft

- Lay the machine horizontally on a table.
- Remove the retainer pin from the output shaft.
- Be careful of the spring reaction.

3 - Disassembling the motor

- Place a special wrench of 56mm across flats in a vice.
- Place the machine in the wrench on the flats which are closest to the motor.
- Heat the gear ring with a torch.
- Untighten the motor - left-hand thread - using a special wrench of 56mm across flats.
- Remove the coupling sleeve and the drive pinion.

4 - Disassembling the reduction gear stages

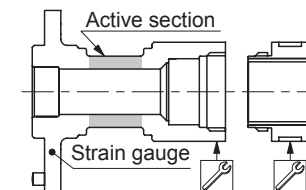
- Place a special wrench in a vice: 56mm across flats if there are 3 stages, 49mm across flats if there are 2 stages.
- The machine should imperatively be placed on the flats of the 2nd stage gear ring or on the flats of the strain gauge if there are only 2 stages.
- Untighten the 1st stage gear ring with a special wrench of 56mm across flats before extracting the planet cage and the washer from the 1st stage.
- Heat the nut with a torch.
- Extract the planet cage and remove washers.
- Untighten the 2nd stage gear ring before extracting the planet cage and the 2nd stage washer.
- Important:** leave the complete planet cages inside the gear rings before untightening them.
- Gently drop the planet cage from the 3rd stage.
- Remove washers.
- Extract pins, planet wheels and the needle bearing from the planet cages.

5 - Disassembling the bearing and cap from the strain gauge

- Remove the circlip from the strain gauge.
- Press the cap out of the strain gauge.
- Remove the circlip from the cap bearing.
- Remove the cap bearing.
- To remove the spring guide, extract the cap circlip.

To prevent any risk of ovalisation, make sure that the planet cages are in their housings before tightening the gear ring nut.

Under no circumstance shall the torques be applied at the active section of the strain gauge when assembling and disassembling, to avoid damaging the strain gauge.


Complete reassembly

Reassembly does not pose any problem in particular. It is important to follow all the indications which are provided, in the form of pictograms, on the drawing opposite.

Item	part number	Qty	Description
2	6156811000	1	Spindle spring
3	6157901390	1	Locking pin
5	570.406	1	Protecting cap
6	6155952330	1	Spring guide
7	6156890350	1	Circlip
8	6157580570	1	Bearing
9	687.52	1	Reversed internal circlip
10	658.163	1	O-Ring
11	6156870350	1	Circlip
12	6154701100	3	Planet wheel
13	6154751540	1	Planet cage
14	6157901100	6	Pin
15	6157880070	12	Needle bearing
18	6154760710	1	Gear ring
19	6156420690	2	Washer
21	6155751030	1	Coupling sleeve
22	6153942630	1	Motor
23	570.405	1	Protecting cover
24	6156180190	2	Screw
25	6157850670	1	Needle socket
26	6152250490	1	Bit holding cap
27	6155210730	1	Output shaft 3/4"
28	6155704145	1	Transducer
29	6154701070	6	Planet wheel
30	6154751530	1	Planet cage
31	6155801170	1	Drive pinion
38	6156890730	1	Ring spring
39	6159381060	1	Connector

