

ORIGINAL INSTRUCTIONS

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

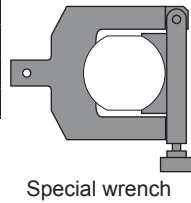
- To avoid damaging the tool during disassembly, use the recommended tools.
- Any repair on the motor shall be carried out in our workshops.

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 36	6159609260
Special wrench of 40	6159606900
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 36mm across flats in a vice.
- The machine should imperatively be placed in the special wrench on the flats which are closest to the motor.
- Untighten the motor with a special wrench of 40mm across flats, left-hand thread.
- Heat the nut with a torch if necessary.
- Remove the coupling sleeve and the drive pinion.

4 - Disassembling the reduction gear stages

- Lay the machine on a table, square drive upwards.
- Gently drop the stages.
- Remove washers.
- Extract pins, planet wheels and needle bearings from the planet cage.

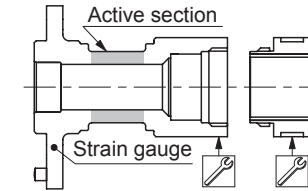
5 - Disassembling the bearing and cap from the strain gauge

- Place a special wrench of 36mm across flats in a vice.
- The machine should imperatively be placed on the flats of the strain gauge.
- Using a torch, heat the end of the gear ring, strain gauge side.
- Untighten the gear ring with a special wrench of 36mm across flats, left-hand thread.
- Remove the spacer.
- Place the machine on a bench and tap on the cap to drop the cap/bearing assembly.
- Remove the stop ring from the 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
1	6155210710	1	Output shaft 3/8"
2	6156811000	1	Spindle spring
3	6157901250	1	Locking pin
4	6155703945	1	Transducer
5	570.404	1	Protecting cap
6	6155952320	1	Spring guide
7	6156890340	1	Circlip
8	6157581360	1	Bearing
9	657.98	1	O-Ring
10	687.45	1	Circlip
11	6156661620	1	Spacer
12	6154751350	1	Planet cage
13	6157901070	6	Pin
14	788.17	6	Needle bearing
17	6154760630	1	Gear ring
18	6156420670	2	Washer
20	6155751020	1	Coupling sleeve
21	6153942620	1	Motor
22	570.403	1	Protecting cover
23	6156180190	2	Screw
24	6157850280	1	Needle socket
25	6152250480	1	Bit holding cap
26	6154700910	3	Planet wheel
27	6154751020	1	Planet cage
28	6154700900	3	Planet wheel
29	6155800880	1	Drive pinion
30	6156890720	1	Ring spring
31	6159381060	1	Connector

