

ORIGINAL INSTRUCTIONS

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

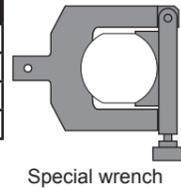
- To avoid damaging the tool during disassembly, use the recommended tools.
- Any repair on the motor shall be carried out in our workshops.

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 26	6159610220
Special wrench of 32	6159604500
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

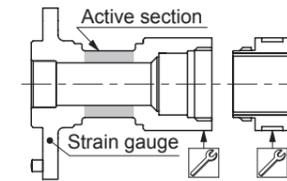
- Place a special wrench of 32mm across flats in a vice.
- The machine should imperatively be placed in the special wrench on the flats which are closest to the motor.
- Untighten the motor with a special wrench of 40mm across flats, left-hand thread.
- Heat the casing with a torch if necessary.
- Remove the coupling sleeve and the drive pinion.

4 - Disassembling the reduction gear stages

- Untighten the nut of the torque transducer connector.
 - Untighten the 4 retaining screws in the strain gauge cover.
 - Be careful not to cut the strain gauge wires!
 - Untighten the 3 screws in the front casing.
 - Remove the reduction gear, taking care not to cut the wires.
 - Lay the machine on a table, square drive upwards.
 - Extract washer(s).
 - Gently drop the stages.
 - Place a special wrench of 26mm across flats in a vice.
 - Place the machine in the wrench on the flats of the gear ring.
 - Heat the gear ring with a torch.
 - Untighten the strain gauge - left-hand thread - from the gear ring with pin wrench. The pin wrench holes should imperatively be used in this operation.
 - Extract pins, planet wheels and needle bearings from the planet cages.
- 5 - Disassembling the bearing and cap from the strain gauge**
- Extract the cap from the strain gauge.
 - Remove the circlip.
 - 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	6156160910	3	Screw
5	6155703925	1	Deforming element
6	566.498	1	Front casing
7	6155952320	1	Spring guide
8	6154760670	1	Gear ring
9	6156890340	1	Circlip
10	6157530750	1	Bearing
11	657.98	1	O-Ring
12	687.45	1	Circlip
13	6154751400	1	Planet cage
14	6157900480	3	Pin
15	298893	6	Needle bearing
16	6154700990	6	Planet wheel
17	6154751380	1	Planet cage
18	6156420670	2	Washer
19	6155801080	1	Drive pinion
20	6155751020	1	Coupling sleeve
21	6153942530	1	Motor
22	570.403	1	Protecting cover
23	6156180190	2	Screw
24	6157850280	1	Needle socket
25	6152250470	1	Bit holding cap
28	6159381060	1	Connector
29	6156890720	1	Ring spring

EME35-10J N°6151654230

