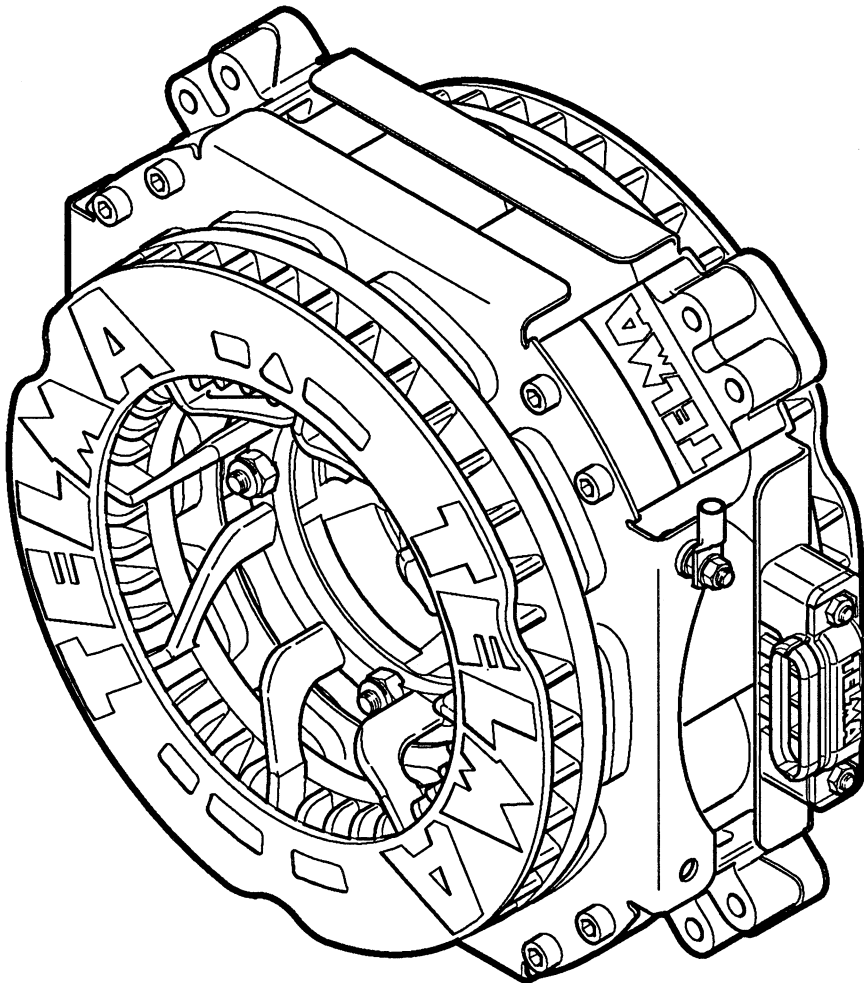


TELMA

SPARE PARTS CATALOGUE OF F 5750 RETARDER



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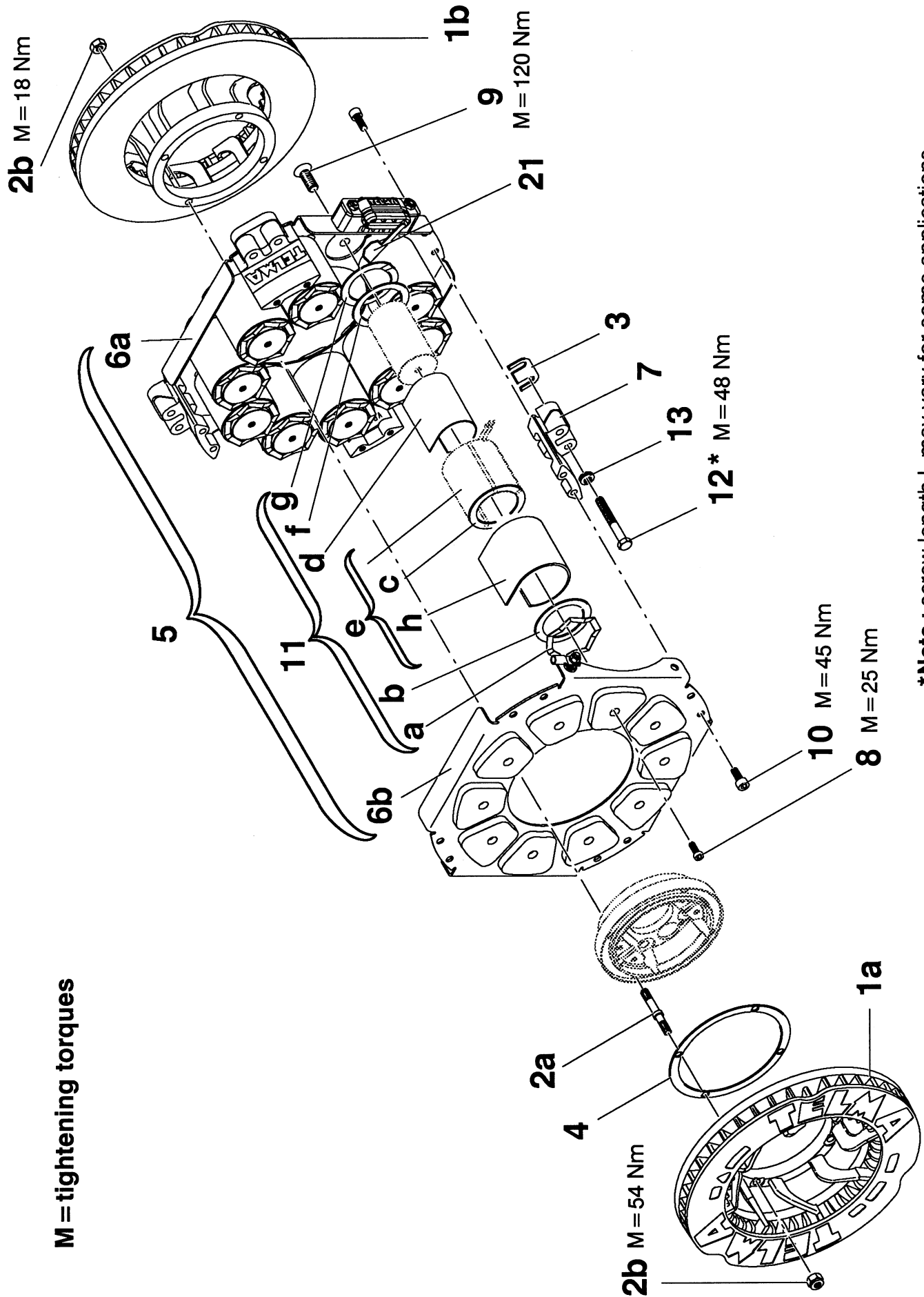
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TABLE OF CONTENTS

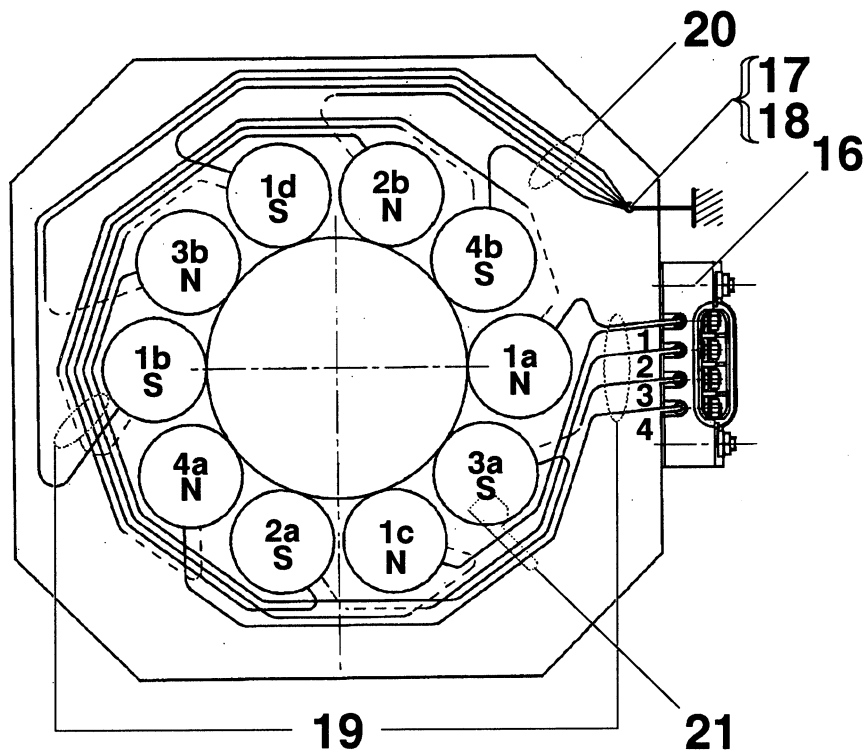
	PAGES
<input type="checkbox"/> EXPLODED VIEW AND LIST OF MECHANICAL SPARE PARTS	2 - 3
<input type="checkbox"/> WIRING DIAGRAM AND INTERNAL WIRING ASSEMBLY	4 - 5
<input type="checkbox"/> ASSEMBLIES :	6
▪ connecting block	
▪ earth terminal	
<input type="checkbox"/> KITS for :	7
▪ wiring repair and crimping tool	
▪ sealing for connecting block	
<input type="checkbox"/> REPLACEMENT OF A COIL	8 - 11

EXPLODED VIEW

M = tightening torques
***Note :** screw length L may vary for some applications.

FOCAL RETARDER TYPE			
Fitting on gearbox or on axle			
CODE			12V
			24V
Item	DESCRIPTION	Qty	Part numbers
1	Balanced rotors assembly, including :	1	VB 107 449
1a	1 rotor		The rotors are only supplied as a matched balanced pair
1b	1 rotor		
2a	Shouldered studs	4	VF 130 550
2b	All metal locknuts	8	VF 120 140
3	Set of stator air gap adjusting shims	1	VB 200 320
4	Set of rotor air gap adjusting shims	1	VB 202 053
5	Stator assembly 12V	1	not available
	Stator assembly 24V	1	VB 107 420
6a	Pole shoe plate connection block side	1	VB 107 421
6b	Pole shoe plate earth terminal side	1	VB 107 422
7	Stator boss	4	not available
8	Screw M8x1.25 (socket cap pole shoe screw)	10	VF 108 130
9	90° countersunk pole shoe screw	10	VF 109 110
10	Socket cap stator boss screw M10x1.50	16	VF 108 280
11	Coil assembly, including :	10	VD 310 541
11a	pressure washer		VB 515 277
11b	coil end protective cover		VD 503 668
11c	upper coil end insulator		VD 503 665
11d	pole insulator *		VB 202 038
11e	impregnated coil		supplied under the assembly n°
11f	lower coil end insulator		VD 503 665
11g	protective washer		VD 503 662
11h	external protective sleeve *		VB 202 036
12	Hex. screw M10x1.50 L = 70x30	8	VF 100 360
13	Trep washer	8	VF 201 390

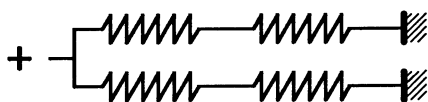
* set of 8 insulator, to be cut to the dimensions of the coil in case of coil replacement.

Wiring diagram 24V

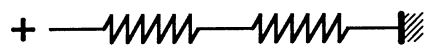


— red sleeve

Layout of one stage 1



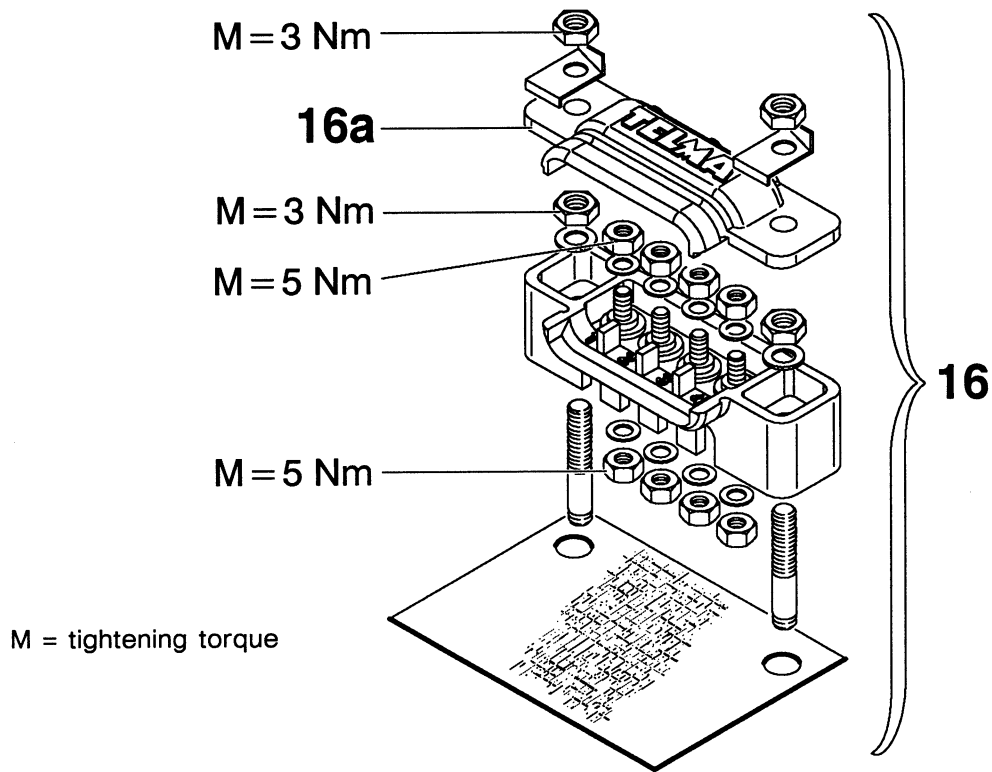
Layout of stages 2,3 and 4



Internal wiring assembly

Item	DESCRIPTION	Part numbers for Stator 24V
16	Connecting block assembly	VD 408 041
17	Insulated earth terminal Ø 8 mm	VD 408 501
18	Earth cable terminal	VG 510 331
19	Wiring assembly d'alimentation	VD 408 492
20	Earth wiring assembly	VD 408 493
21	Set of 10 cable securing plates	VD 408 052
/	1 l can of cable protective varnish	VH 510 440
/	1 kg can of araldite for bonding the coils on the poles	VH 510 160
/	400 g can of hardener for araldite	VH 510 310

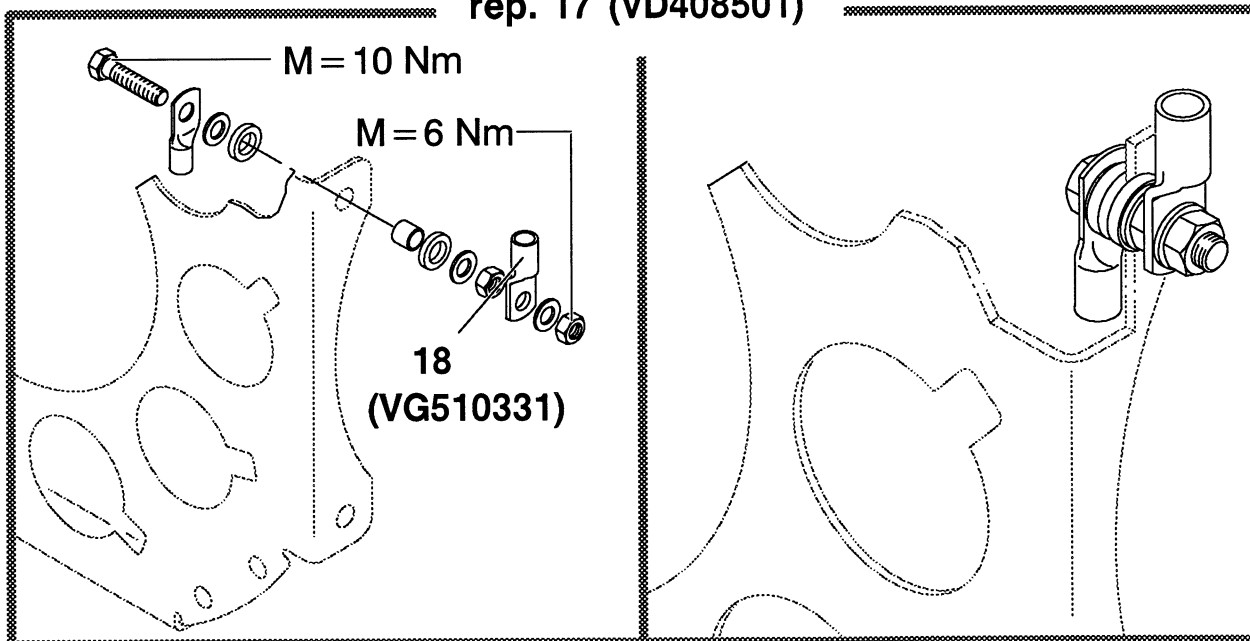
Connecting block assembly



Item	Description	Qty	Part numbers
16	Connecting block assembly with cover	1	VD 408 041
16a	Cover for connecting block	1	VD 503 622

Earth terminal assembly

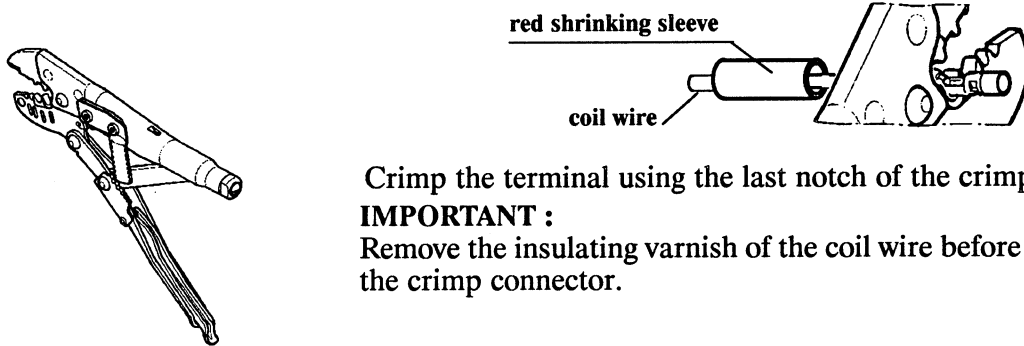
rep. 17 (VD408501)



M = tightening torque


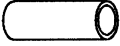

Wiring repair kit and crimping tool

Only genuine TELMA parts (see below repair kit VD 408 491) and a suitable crimping tool, RKG n° 69003 or TELMA n° JZ 800 380, should be used.

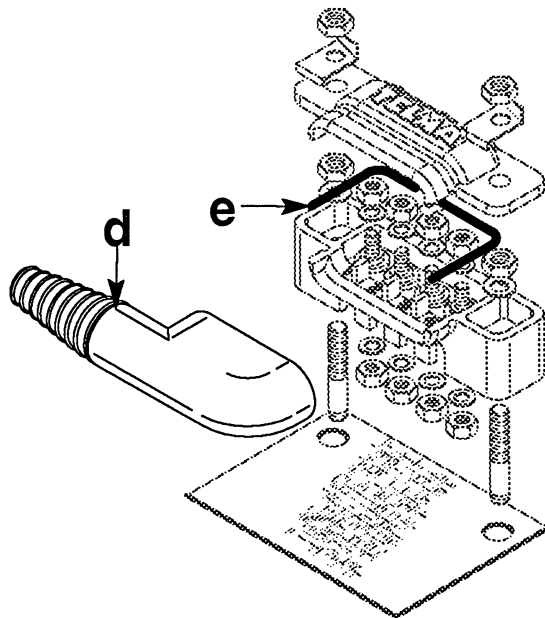


Crimp the terminal using the last notch of the crimping tool.
IMPORTANT :
 Remove the insulating varnish of the coil wire before crimping the crimp connector.

- Set VD 408 491 of connecting parts, including :

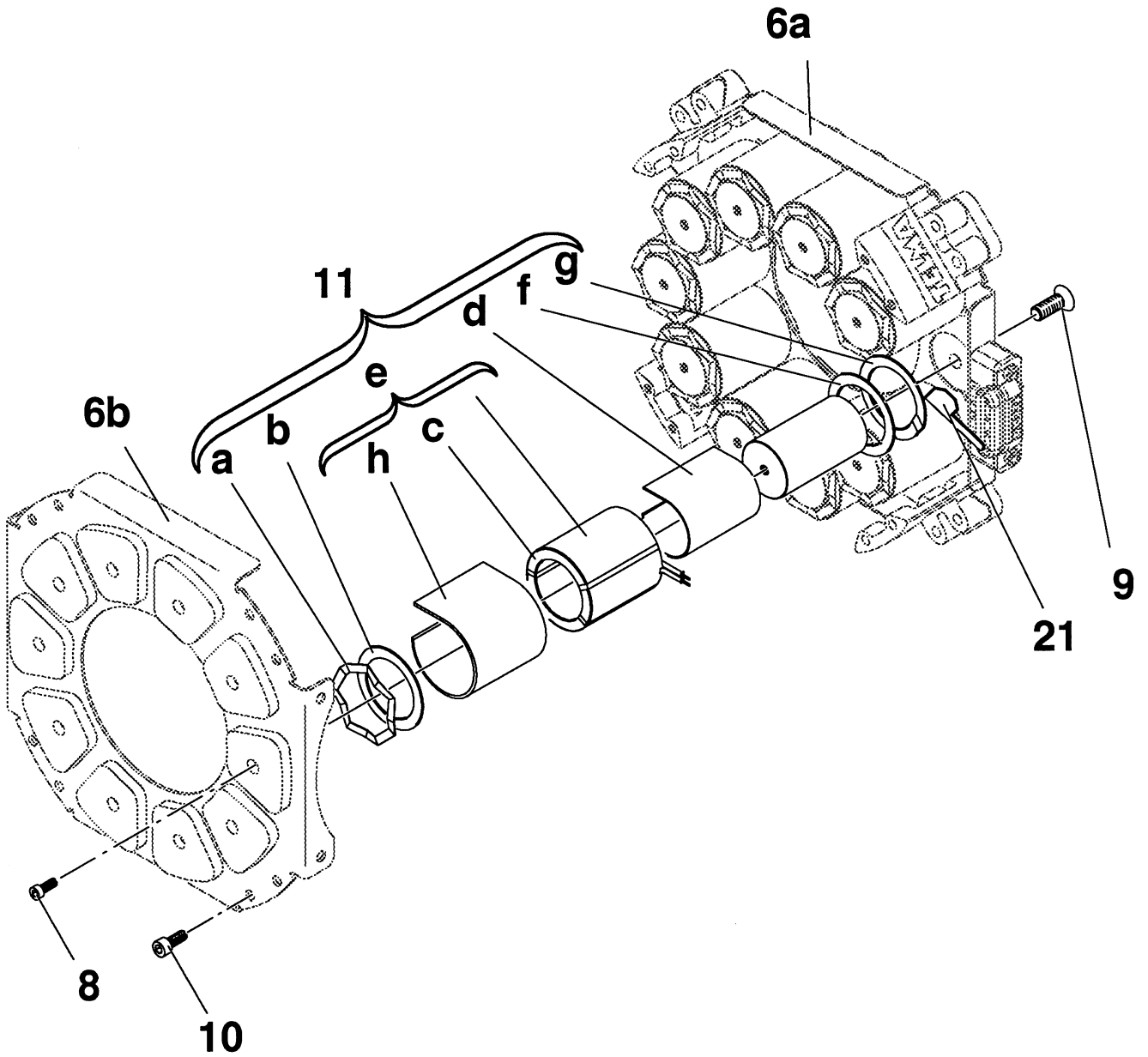
	DESCRIPTION	Qty
	crimp connector	16
	Viton sleeve	16
	red shrinking sleeve	8

Sealing kit for connecting block assembly



NOTE : The use of silicone seal VH 510 130 is recommended when installing **d** and **e** included in the sealing kit VB 107 377.

Replacement of a coil



1 - COIL REPLACEMENT

- Remove the pole shoe plate (item 6b) by unscrewing the following :
 - 10 screws (item 8)
 - 8 screws (item 10)
 - the earth connection
- Mark both pole shoe plates (items 6a and 6b) for alienment.
- Fold back the 10 cable securing plates (item 21) to release the cables.
- Cut the coil wire (red) at the crimp connection so as the crimp is still connected to the coil wire.
- Remove the countersunk screw (item 9) which secures the pole and coil assembly to the stator housing.
- Mark the position of the pole with regard to the housing in order to refit it in its original position and remove the pole and coil assembly.
- Separate the coil from the pole by using a press.

2 - CLEANING OF THE STATOR

- Remove all traces of varnish, insulating material and Araldite which are sticked on the pole, the pole shoe plates (au niveau de la surface d'appui de la bobine).
- Reassemble the pole on the stator in its genuine position using a new screw (item 9), tightening torques : 120 Nm (= 89 lb-ft).

IMPORTANT :

Before bonding the coil with Araldite, make a preliminary test installation to check that the set consisting in the new coil itself, the insulation washers, the protective cover and the pressure washer fit properly on the pole.

The pressure washer (item 11a) is to be at least 2 mm higher than the pole if not add lower coil end insulators (item 11 f) to reach this minimum value.



3 – PREPARATION OF THE MIXTURE OF ARALDITE AND HARDENER

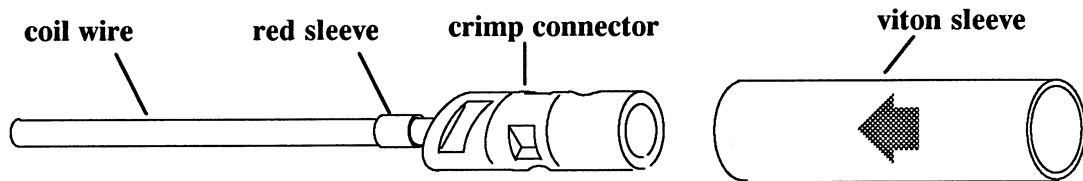
In the following text, the mixture will be designated by Araldite.

- The coils are bonded to the poles with an Araldite/hardener mixture, to be prepared with :
 - a 1 kg can of Araldite n° VH 510 160
 - a 400 g can of hardener n° VH 510 310
- The required quantity of mixture depends on the number of coils to be bonded. Approximately 60 grams of mixture are required per coil.
- Take a very clean metal container and just before use, mix 40 parts of hardener with 100 parts of Araldite for each coil to be bonded.

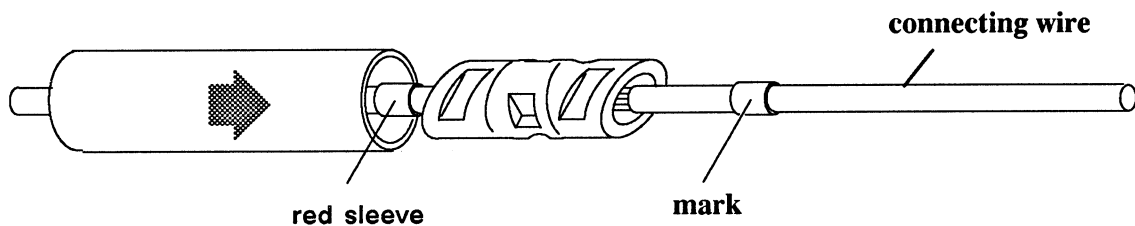
Polymerization time at ambient temperature of 20°C (68°F) : approx. 12 hours.

4 – FITTING THE NEW COIL

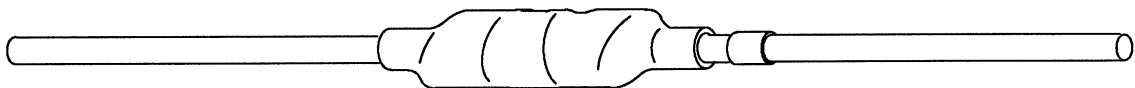
- Take a spatula or brush and coat on both sides of the stainless protective washer (item 11g). Slide it into position on the pole.
- Coat one side of the pole insulator (item 11d) and wind it around the pole.
- Place the coil end insulating washer (item 11f) on the stainless steel washer (item 11g).
- Coat the inside and the non-insulated side of the new coil (item 11e). Fit the coil around the pole.
- Place the stainless steel protective end cover (item 11b) then the washer (item 11a).
- Slide the viton sleeve over the connecting wires of the coil.



- Remove 5 mm insulation from the ends of the connecting wires.
Following the suitable internal wiring diagram of page 14 and the marks made during the disassembly, install the ends of the connecting wires inside the crimp connectors of the coil and crimp the connector.



- Slide the viton sleeve over the connector and heat shrink it



- Fold the cable securing plates (item 21) to secure the cables
- Coat the cables with varnish ref. VH 510 440.
- Replace the pole shoe plate (item 6b) on the same location using the marks for alignment.
- Secure the pole shoe plate with 8 screws (item 10 – tightening torque 45 Nm) and 10 screws (item 8 – tightening torque 25 Nm).
- Re-connect the earth connection.
- Check resistances and polarities of the circuits.

