

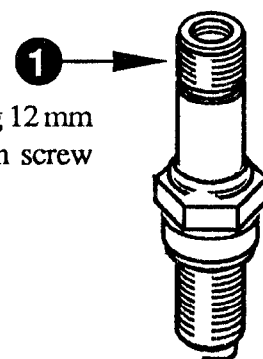


## Engine type 912 UL, ignition unit with resistor spark plug

### 1) General information:

Starting with engine no. 4,005.173 of engine type 912 UL, the resistor plug 12 mm DCPR7E is used instead of the 12 mm EYQUEM plug AD800L with screw connection ❶.

This EYQUEM spark plug cannot be supplied by ROTAX any more.



III. 1

### 2) Spare parts supply:

For spare part service, conversion to the now used resistor plug 12 DCPR7E has to be carried out according to the following instructions.

### 3) Procedure:

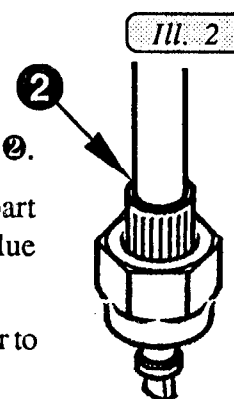
#### 3.1) Conversion to resistor spark plug connectors:

Sever all H.V. leads by a neat cut direct beside the screw connection ❷.

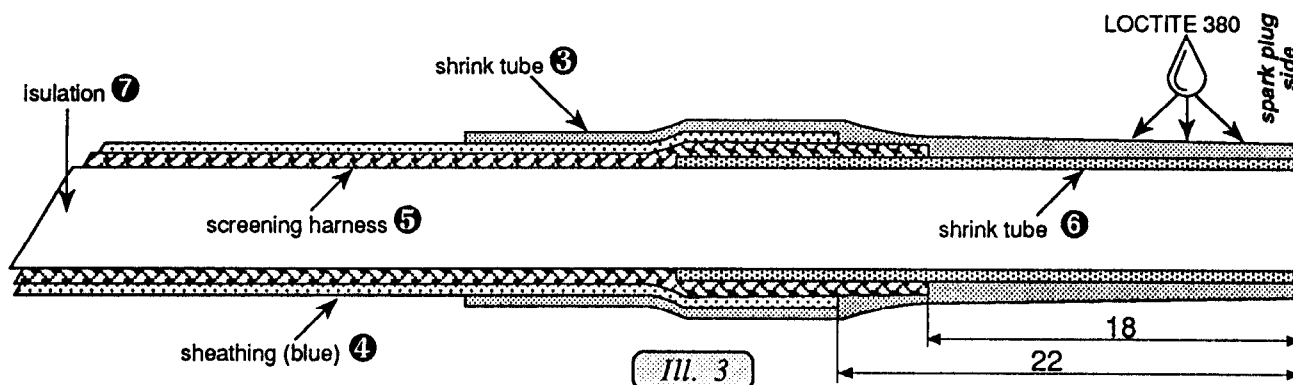
Prior to the skinning of insulation slide a 40 mm long shrinktube ❸ part no. 860 621 far enough on to H.V. lead. Shorten the outer, blue sheathing ❹ by 22 mm and the screening harness ❺ by 18 mm.

■ **ATTENTION:** Slide suitable tube under screening harness prior to shortening of harness, to protect insulation ❷.

Place 30 mm long shrinktube ❻ part no. 260 791 under screening harness ❺ ending flush with cable and heat up evenly by hot air.



III. 2



III. 3

Flatten out screening harness ❺, shift outer shrinktube ❸ to end of cable and heat up evenly by hot air.

Apply LOCTITE 380 to the front end of H.V. lead and fit to resistor plug connector ❸.

◆ **NOTE:** Resistor plug connector is furnished inside with a threaded prong!

Secure spark plug connector additionally by cable strap ❹, part no. 866 710. Repeat procedure on all eight H.V. leads.



■ **IMPORTANT:** Use only same type of connectors and spark plugs on one engine.

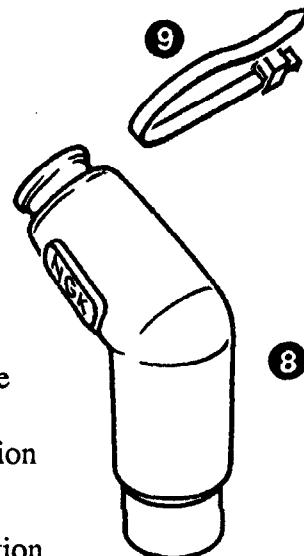
### 3.2) Conversion to resistor spark plug connectors with simultaneous renewal of H.V. ignition leads

On the plug-side follow procedure as described in point 3.1).

At the ignition coil end, the skinning of the blue sheathing ① and of the screening harness ② to be carried out according to the following table and sketch.

The skinning length differs due to the arrangement of the ignition coils.

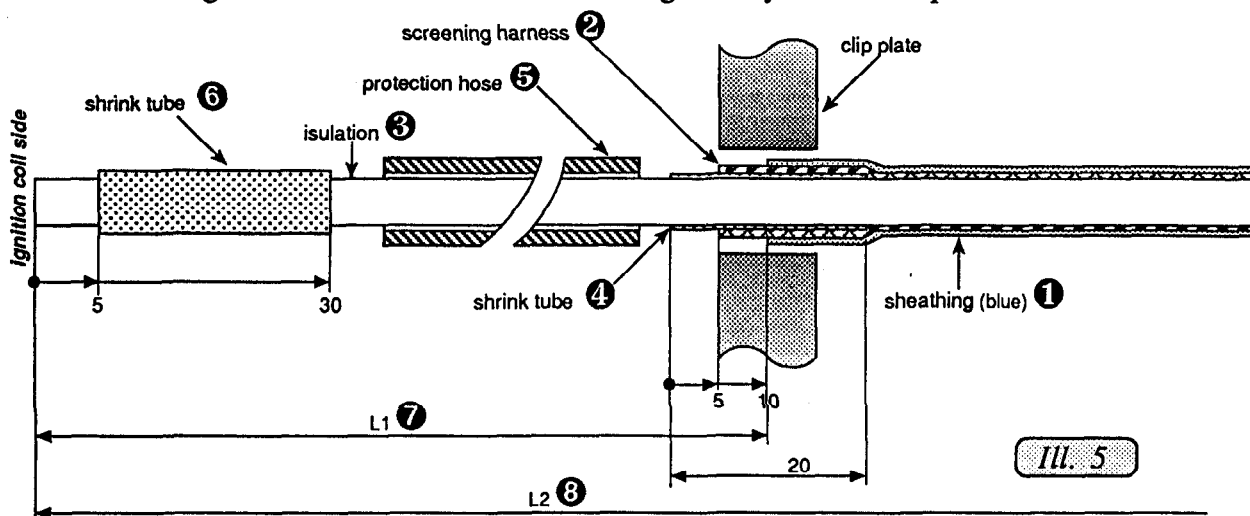
■ **ATTENTION:** Never damage insulation ③ of the ignition leads. Use protection tube!



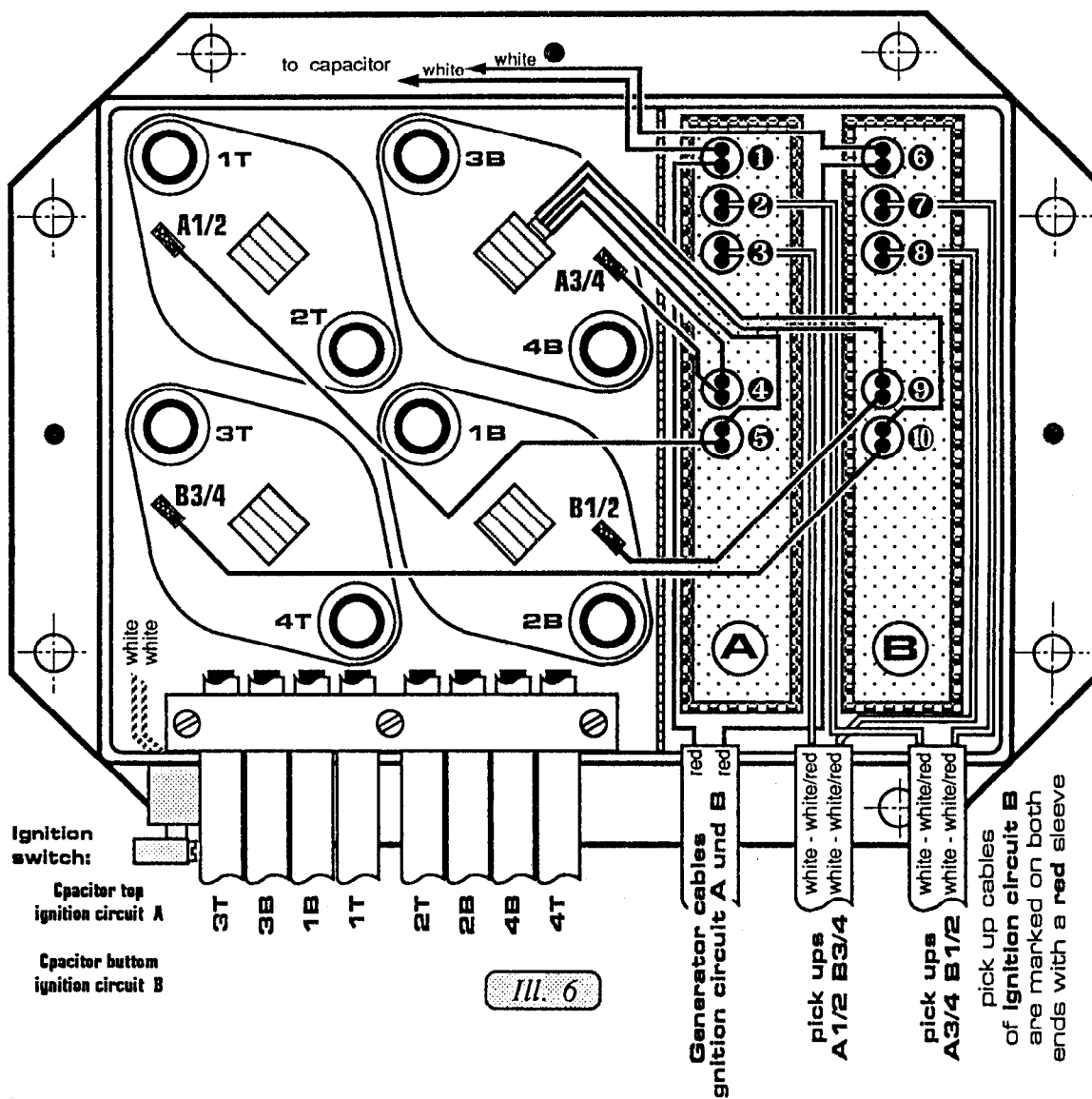
ignition H.V. lead	total length L2⑦	length L1⑧	sheathing length⑥
1 Top	840 mm	150 mm	130 mm
2 Top	790 mm	100 mm	80 mm
3 Top	790 mm	100 mm	80 mm
4 Top	840 mm	150 mm	130 mm
1 Bottom	860 mm	100 mm	80 mm
2 Bottom	860 mm	100 mm	80 mm
3 Bottom	910 mm	150 mm	130 mm
1 Bottom	860 mm	100 mm	80 mm

Place 20 mm long shrinktube ④ under screening harness and heat up evenly by hot air. Slide corresponding protection hose ⑤ on H.V. cable. Place 25 mm long shrink tube ⑥ 5 mm past cable end and heat up.

Connect each of the ignition H.V. cables to ignition coils according to following wiring diagram and hold cables in position by the clip plate on the screening box. The ignition cables 3B and 1T are tied together by a cable strap.



All eight plugs to be replaced by resistor spark plugs DCPR7E using plug spanner 16 A/F. Tighten to 20 Nm (177 in.lb.) on cold engine. Connections according to following wiring diagram.

**3.3) Wiring diagram for H.V. leads:****4) Parts needed:**

for chapter 3.1)

8	spark plug 12 DCPR7E .....	897 255
8	resistor spark plug connector ⑤ 5 kΩ VD05 FMH .....	265 240
8	cable strap ④ .....	866 710
8	shrink tube 40 mm ③ .....	860 621
8	shrink tube 30 mm ⑥ .....	260 791
1	plug spanner 16 A/F .....	276 282
1	LOCTITE 380 .....	897 511

additional for chapter 3.2)

8	shrink tube 20 mm ④ .....	260 793
8	shrink tube 25 mm ⑥ .....	860 531
2	H.V. lead 990 mm .....	965 301
2	H.V. lead 1040 mm .....	965 302
3	H.V. lead 1060 mm .....	965 303
1	H.V. lead 1110 mm .....	965 304
1	cable strap .....	866 710