3-different possibility to remove the upper spoiler part! 
-1 + 2 with drive module intact or half function + (2)emergency release . PAG. 2
-3 if drive module is faulty. For this procedure Instructions you need a circlips pliers( nose external type snap ring pliers) and a buffed key off nr. 12 with max. 4 mm thickness to remove the hydraulic lines from the rams. PAG.7

CAUTION:
Protect your cold engine with plastic or tissue!
Put tape around the hook wrench to avoid scratch on the paint from the car.

Different tools that you need for removing the spoiler:

- Special hook wrench and the buffed key off nr. 12, both included with the workshop manual.
- second key off nr 12.
- A few quick-release straps
- Torx bits TX8, TX 30, TX 40, holder with extension of +- 10 cm.
- Socket wrench of 10, and the ratchet wrench with extension .
- Circlips pliers( nose external type snap ring pliers)
Removing rear spoiler

Note: The spoiler can only be removed easy from the rear lid when the extension elements are extended. (spoiler up) otherwise follow the manual on page 7

1. Extending the spoiler max. with the switch in the car.

2. Pull spoiler upwards with hand if not enough place between rear lid and spoiler -...

3. Push two support pads approx. 60 mm high on the right and left between the rear lid and the spoiler or towels. Note: use suitable packaging material (e.g. styropore pad, cardboard) as a support pad.

4. Insert the top off the hook wrench and turned clockwise to align the bore in the extern tube together wit intern bore (5).
6. Remove the two support pads or towels.

**CAUTION:** If not enough place between rear lid and spoiler to continue remove rear lid you insert the support pads and take the cylinders with wear gloves during emergency release when you continue turned with the hook wrench for remove the rear lid. The spoiler must be held tightly by an assistant. During emergency release, the extension element retracts suddenly! Before release, cover off the painted areas of the lid near the extension elements with adhesive tape in or towels.

I prefer in this case to follow the instruction on page 7 for easy removal rear lid !!!!!

7. Insert hook wrench into the bores and turn clockwise by 90

8. Unlock left and right extension.
Removing hydraulic cylinders and pump unit:

Protect engine to avoid that you loses screws.

1. Remove plastic cover from micro switch holder and unscrew fastening screws TORX BIT TX8 on the hydraulic cylinder.

2. Remove micro switch holder from ram.
1. Remove wiring from holder.
2. Disconnect plug connection on fan and light, unscrew fastening screws fan and remove fan.
3. Unscrew fastening screws inside air guide and remove.
4. Unscrew a few turns the 4 screws on pump unit don’t remove the screws.
5. Unscrew the 8 screws that hold the plastic plate on the rear lid and remove, you can now unscrew with the hand the screws from pump unit.
6. Fasten the pump with quick-release straps.
7. Disconnect wiring on pump and protect them with insulating tape.

Remove instructions for the pump unit rams.
8. Unscrew the screws that fastening the rams on the rear lid and remove them. Remove the mechanism and rams.

9. Attach with plastic strip the wiring from the pump to avoid that is turn in the fan. Install plastic plate, air guide and fan back. No you can drive with the car until your mechanism is repair.

For a good repair service we need all the mechanism for a checkup and filling the oil without air bubbles.

Disconnections oil lines from the rams with the buffed key off nr. 12 and remove remaining oil from the mechanism.

Be careful with the lines when you package the mechanism to send us for the repair service.

Mention the content as hydraulic mechanism that need to repair. Listed my email and phone number on the documents for shipment.
Remove instructions for the spoiler in case of malfunctions in the pump unit and when the mechanism has to be repair.

1. Bring the spoiler down manually using the rocker switch with the ignition on, if spoiler stay up don’t panic you can continuous to follow the instruction:

2. Remove plastic caps from the hydraulic rams.

Disconnect oil lines from the rams with the buffed key off nr. 12 and trapping oil on. (if spoiler total out do it in several steps on left and right ram to prevent damage to hydraulic rams and spoiler fastening)
4. Remove circlip with circlips pliers left and right side (nose external type snap ring pliers) don’t open to much the circlips.

5. Remove spring ring. Do this both sides.

6. Pull spoiler upwards with hand, the inner parts of the hydraulic cylinder’s coming with the spoiler out.
7. Place the spoiler upside down on cardboard or bath towel.

9. Insert the top off the hook wrench and turned anti-clockwise to align the bore in the extern(8) tube together with intern bore(9).

10. Insert hook wrench into the bores and turn anti-clockwise by 90° to unlock left and right extension.
Remove instructions for the pump unit and rams.

Remove plastic cover from micro switch holder and unscrew fastening screws TORX BIT TX8 on the hydraulic cylinder.

Remove micro switch holder from ram.

1. remove wiring from holder.
2. disconnect plug connection on fan and light, unscrew fastening screws fan and remove fan.
3. unscrew fastening screws inside air guide and remove.
4. Unscrew a few turns the 4 screws on pump unit don’t remove the screws.
5. Unscrew the 8 screws that hold the plastic plate on the rear lid and remove, you can now unscrew with the hand the screws from pump unit.
6. Disconnect wiring on pump and protect them with insulating tape.
7. Unscrew the screws that fastening the rams on the rear lid and remove them.
Remove the mechanism and rams.

8. Assembling the inner parts from the hydraulic rams with the extern part. Don’t lose any parts.
CAUTION!!!: don’t remove this circlips on the top off the hydraulic cylinders, there is a big spring inside with many pressure!!

9. Attach with plastic strip the wiring from the pump to avoid that is turn in the fan. install plastic plate , air guide and fan back. No you can drive with the car until your mechanism is repair.

For a good repair service we need all the mechanism for a checkup and filling the oil without air bubbles.

Disconnects oil lines from the rams with the buffed key off nr. 12 and remove remaining oil from the mechanism.

Be careful with the lines when you package the mechanism to send us for the repair service.

Mention the content as hydraulic mechanism that need to repair. listed my email and phone number on the documents for shipment
Installing rear spoiler:

After the repair service the rams are extended for easy installing.

Caution: Don’t unscrew hydraulic lines from the mechanism, oil will leaking and your mechanism will be out of balance.

1. Check the bores on both extension elements.
2. Installing the pump and the rams on the rear lid but don’t full tighten the ram screws on the rear lid !!!

3. Put spoiler,
4. Insert hook wrench, then turn anti-clockwise 90° and lock spoiler on both sides.
Cover off bore of closure peg –1– by gently turning the outer tube.
Otherwise dirt and water coming in the rams and you lose your warranty..
5. No you can tighten the 3 screws on the rams for the good alignment.

For install plastic plate, air guide and fan back please look in pages before.

We fix almost every fail on the Porsche 996-997 turbo spoiler mechanism.
We are not responsible for damage on the car or fiscal accidents when you follow our manual for dismantling the rear spoiler.

Do not doubt to contact me for support online.

Workshop manual for removing and installing rear spoiler and pump unit Porsche 996 – 997 Turbo is available in different language

Send me an e-mail and I will send the manual free in pdf.

Caution: when you receive the mechanism don’t unscrew hydraulic lines from the mechanism. Oil will leaking and your mechanism will be out of balance.

During the installing you can twist the connectors with hand on the bottom of the rams to bring hydraulic lines in good position.
Specialized in repair the spoiler hydraulic mechanism from a Porsche 996-997 turbo with min. 5 years warranty.

We have redesigned the inner parts together with one off the biggest industrial service of the world and world leader in Sealing technology. We guaranty you better than original parts with longer lifetime.

We change broken parts with better manufactured as genuine.

Every mechanism is controlled on pressure before return for good function.

We post Worldwide

Tel: 0032.56.55.84.08
Tva: BE 668.282.389

Info: dh.automotive@telenet.be

DH-AUTOMOTIVE
Rue de la gare 27
7780 Comines
Belgique