

# INSTRUCTION MANUAL FOR CVC COMPRESSOR EXTERNAL TO INTERNAL REGULATED



**In case of replacement, the compressor of AC system has to be replaced by an internally regulated compressor, install a cable bridge and an additional cable. Use the actual circuit diagram to rework the electrical system.**

## Procedure:

1. Disconnect battery.
2. Replace compressor.
3. Remove engine compartment electronic module (UEC).
4. Clip-off wiring harness plug; XE2.
5. Check wiring harness plug.



**If a cable bridge is installed between chamber 52 and chamber 53, go on to the step 9.**

6. Install the cable bridge into wiring harness plug; XE2 (See Picture 1).

- unlatch protection in direction of arrow
- remove seals with a suitable tool
- install cable bridge brown/black into chamber 52 terminal with grey seal and chamber 53 with blue seal
- latch harness plug

7. Clip-in wiring harness plug; XE2.

8. Clip-in wiring harness plug; XE1.

9. Install cable black/white into wiring harness plug; XE1 (See Picture 2)

- unlatch protection in direction of arrow
- remove seal with a suitable tool
- install terminal (female) into chamber 44, pay attention to installation position
- latch wiring harness plug.

10. Clip-in wiring harness plug XE1.

11. Route cable along the wiring harness to plug X26 and fasten with insulating tape.

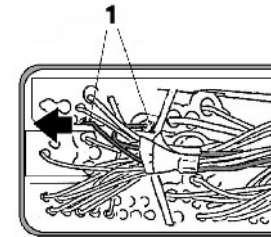
12. Remove front wheel.

13. Remove wheel housing protective panel.

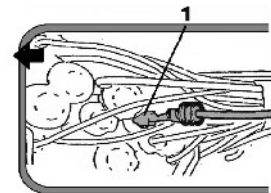
14. Clip-off wiring harness plug X26 from bracket.

15. Unlatch and disconnect wiring harness plug X26 (See Picture 3).

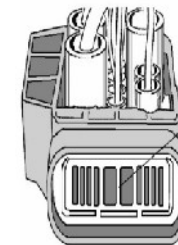
- remove cable strap
- remove lock latching (1)



Picture 1

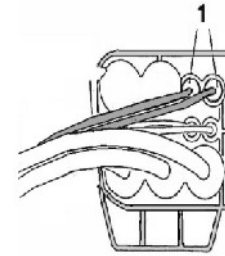


Picture 2



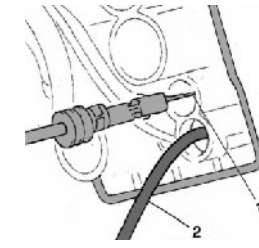
Picture 3

16. Remove terminals from chamber 1 and chamber 2 (See *Picture 4*).
- press out terminals
  - cut-off terminals
  - insulate cable ends and fasten to the wire harness with insulating tape.



Picture 4

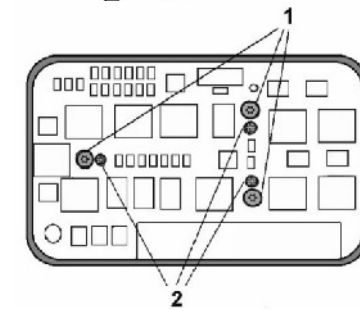
17. Install terminal of cable black/white from the wire harness plug; XE1 (chamber 44) into the wire harness plug; X26 as well as terminal of brown cable and install lock latching.
- Chamber 1 (cable 1, *Picture 5*)**  
cable color black/white
  - Chamber 2 (cable 2, *Picture 5*)**  
cable color brown



Picture 5

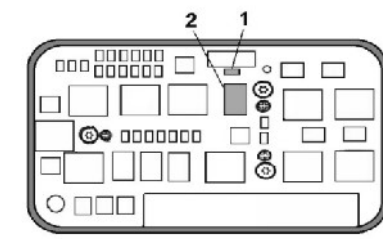
**⚠ Before connecting the compressor, make certain that the polarity is correct.**

18. Remove nut ground connection from the body.
19. Install ground cable (eye) from wire harness plug; X26, and tighten nut.
- fasten cables with cable strap to the plug
  - connect wiring harness plug
  - clip-in wiring harness plug to bracket
20. Fasten cables with insulating tape to the wire harness.
21. Install wheel housing protective panel.
22. Install front wheel.
23. Install relay (2) and fuse (1) (See *Picture 6*).
24. Install engine compartment electronic module (UEC).



Picture 6

**⚠ Pull positioning pins (2) down to the stop with a suitable tool. Tighten 3x screw (1) (*Picture 7*). Positioning pins must be visible again in mounted position.**



Picture 7

25. Reprogram engine control unit, ECC and UEC. For the ECU, (variant programming), select "unregulated AC" for the ECC select "compressor with clutch" for the UEC select "ECC not present".
26. Check air conditioning function.
27. Erase trouble codes.