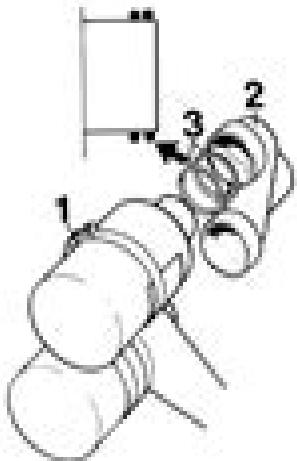


## 26. Air filter, changing

Change the air filter every 10000 hours. TAD0121 have two air filters. Under favourable conditions the time between the changes can be extended. The filters must not be used as long that the air supply to the engine is restricted, resulting in primary exhaust emissions and reduced power output.

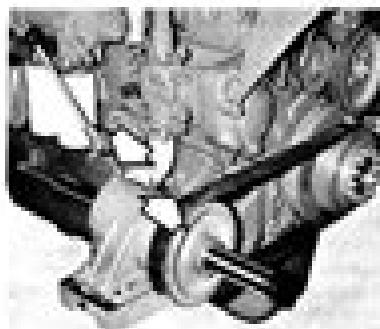
1. Disconnect the connection pipe (1) at the filter. Blocken the stems (2) which holds the filter.
2. Remove the old filter. Check that the connection pipe is free from impurities.
3. Thoroughly, thoroughly, fit back the O-rings (3) on the outer and of the pipe connection of the new filter.
4. Check that the filter is free from impurities and push it into the pipe. Tighten the filter using the stems.
5. Start the engine and check that there is no leakage.



## 27. Side located power take-off, lubricating

### Optional equipment

Lubricate the power take-off after every 10000 hour of operation. Use unthinned grease. Lubricate approximately 4-6 drops of the hand grease gun in each nozzle.



## 28. Starter motor and alternator, checking

The check must be made after every 10000 hour of operation and be carried out by authorized personnel.

AD0121 Remove both battery cables before starting work on the electrical system.

**Starter motor:** Check the brushes and commutator. **Alternator:** Check the brushes and slip rings.

### Lubrication:

The large alternator, G40, should be lubricated every 10000 hour (over 10000 hours of alternator use lubricated with oil conditioner, with oil conditioning).

Unscrew the plug which covers the lubricating hole at the bottom of the belt pulley. Lubricate with a small amount of Shell Rustless A or equivalent lubricant of another make. Re-fit the plug.



## 29. Heat exchanger, cleaning

Clean the heat exchanger insert after every 20000 hours. Clean the exchanger and drain the coolant before starting any work on the cooling system.

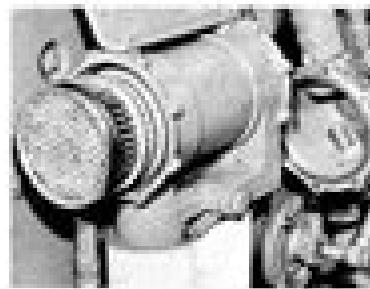
1. Remove the hoses from the end cover of the heat exchanger on the right-hand side.
2. Unscrew the mounting bolts on both sides and remove the covers. In the case of TAD0121 engines the covers are attached by four bolts and on the right-hand side there is a centre bolt. In the case of TAD0101 engines the covers are attached by centre bolts.
3. Pull out the insert and clean it both externally and internally with suitable brushes. Also clean the outer side surfaces in the heat exchanger housing. Blow off the parts.
4. When assembling make sure that the holes in the insert plate are located opposite the holes in the housing. Replace all the sealing rings and smear a little oil on them before fitting.



## 30. Oil cooler, cleaning

Clean the oil cooler on both the engine and receiver gear after every 20000 hours. Clean the exchanger and drain the coolant before starting any work on the cooling system.

1. Remove both the outer and inner oil cooler.
2. Wash the insert in petrol/glycerine and blow dry with compressed air. Use a brush/scrubbing for cleaning purposes.
3. Re-fit the parts with new sealing rings.



## 31. After-cooler, cleaning

TAD0121

Clean the after-cooler insert after every 10000 hours. Clean the exchanger and drain the coolant before starting any work on the cooling system.

1. Disconnect the upper coolant pipe (1) of the heat exchanger.
2. Unscrew the cover (2). Remove the cover and the cover pipe.
3. Remove the two bolts holding the flange (3). The flange rests against the element with by means of two O-rings.
4. Carefully prise up the element with the help of two screw drivers.
5. Blow and clean the inside both externally and internally. Also clean the housing if necessary. The housing is made of light alloy and care should therefore be taken not to use a solution which could damage the paint. AD0121 requires no impurities enter the engine via the after-cooler.

Check that the drain hole in the bottom of the housing is open, clean if necessary. The gaskets and O-rings should also be replaced if necessary. Re-fit the components.



# Volvo Penta 45 Arhimedes Manual

**Volvo Penta (Firm)**

## **Volvo Penta 45 Arhimedes Manual:**

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