

## Stationary compressors SF1 up to SF15

### ASB: Greasing instructions and replacement of seals

## 1 Replacement of seals

### 1.1 Replacing interval

Replace the seals every 10,000 running hours or every 2 years, whichever interval comes first.

### 1.2 Seals for the fixed scroll

#### Seal types

See Fig. 1.

#### Procedure for tip seals (Fig. 1)

1. Remove seals (1 and 2).
2. Insert the new seal (2): start from the centre, then gently push the seal into the groove by hand in one smooth movement.
3. Then insert the new seal (1): start from the end of seal (2) (both seals should touch each other), then push seal (1) further into the groove.

#### Important

The seals are provided with small lips. Make sure that the seals are fitted in such a way that the lips are positioned at the bottom of the groove and at the inner side of the curve.

#### Procedure for dust seals (Figs. 1 up to 3)

1. Remove seals (3 and 4).
2. Insert the new seal (round tube) (3) in such a way that the seam is positioned at the bottom.
3. Then insert the new seal (square one) (4) above the round tube; make sure that the seam is positioned at the right.

### 1.3 Seals for the orbiting scroll

#### Seal types

See Fig. 4.

#### Procedure (Figs. 4 and 5)

1. Remove seals (5 and 6).
2. Insert the new seal (5): start from the centre, then gently push the seal into the groove by hand in one smooth movement.
3. Then insert the new seal (6): start from the end of seal (5) (both seals should touch each other), then push the seal further into the groove.

#### Important

The seals are provided with lips. Make sure that the seals are fitted in such a way that the lips are positioned at the bottom of the groove and at the inner side of the curve.

## 2 Greasing instructions

### 2.1 Greasing quantity and interval

#### For the orbiting scroll bearing:

Compressor	Greasing quantity (if greasing for first time)	Greasing quantity (after the first time)
SF1/2 SF6 with small element	Pumping 5 times	Pumping 4 times 2-yearly or every 5,000 running hours 1)
SF4 up to SF15	Pumping 7 times	Pumping 6 times 2-yearly or every 5,000 running hours 1)

#### For the pin crank bearings:

Compressor	Greasing quantity (if greasing for first time)	Greasing quantity (after the first time)
SF1/2 SF6 with small element	Pumping 5 times	Pumping 4 times 2-yearly or every 10,000 running hours 1)
SF4 up to SF15	Pumping 7 times	Pumping 6 times 2-yearly or every 10,000 running hours 1)

1) Whichever interval comes first.

### Important

- Never loosen screws (2-Fig. 6) as they are used to adjust the axial clearance between the fixed scroll and orbiting scroll.
- Only use special Atlas Copco grease; other brands shorten the service life of the bearings.
- A grease gun (11-Fig. 7), designed to house the grease tube (12) and provided with the proper adaptors (9 and 10), is also available from Atlas Copco.

### Part numbers

For grease pump	2903 0004 00
For grease cartridge	2892 6100 20

## 2.2 Procedure

After removing the fan housing and fan:

### For the pin crank bearings (3 and 6-Fig. 6)

1. Remove dust cap (1).

2. Fit adaptor (9-Fig. 7) to the grease gun and push the gun against nipple (13-Fig. 8). Pump grease into bearing (6-Fig. 8).
3. Fit adaptor (10-Fig. 7) to the grease gun and put a layer of grease around the circumference of bearing (3-Fig. 9).
4. Repeat this procedure for the other bearings (3 and 6) at the bottom left and bottom right of the bearing housing.

### For the orbiting scroll bearing (8-Figs. 6 and 10)

1. Remove one of the dust caps (4).
2. Rotate the crankshaft until the key is positioned at an angle of 45°. See Fig. 10.
3. Fit adaptor (9-Fig. 7) to the grease gun, insert it into hole (13-Fig. 10) and push the gun against grease nipple (7-Fig. 6). If it is impossible to rotate the crankshaft manually while holding the grease gun as described above, the position of the gun is correct. Pump grease into bearing (8-Fig. 10).

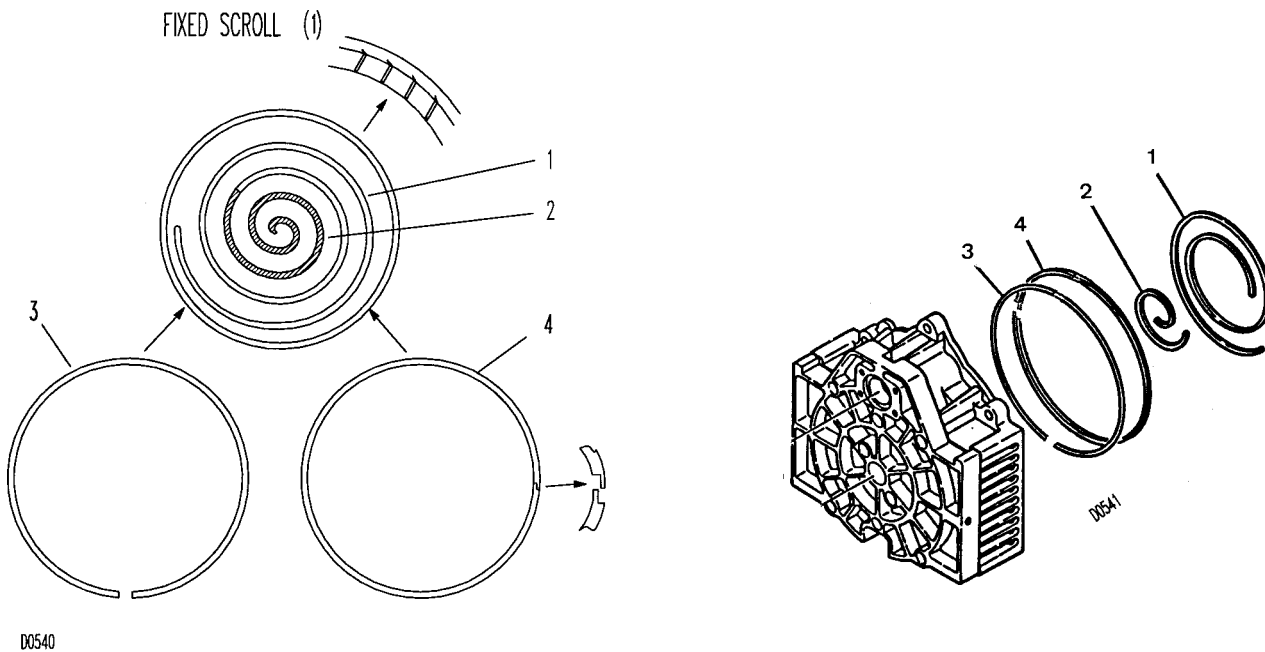


Fig. 1

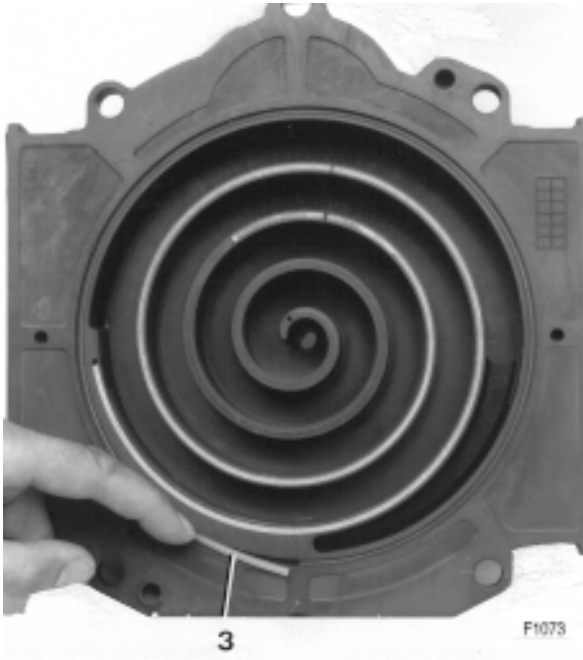


Fig. 2

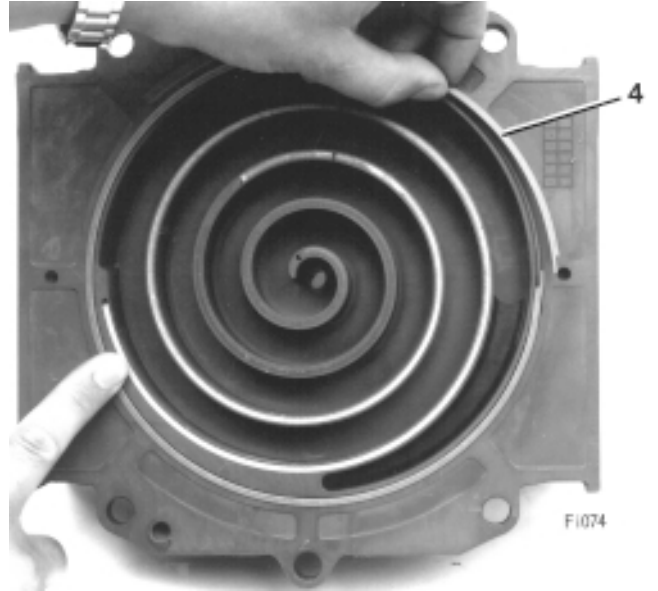


Fig. 3

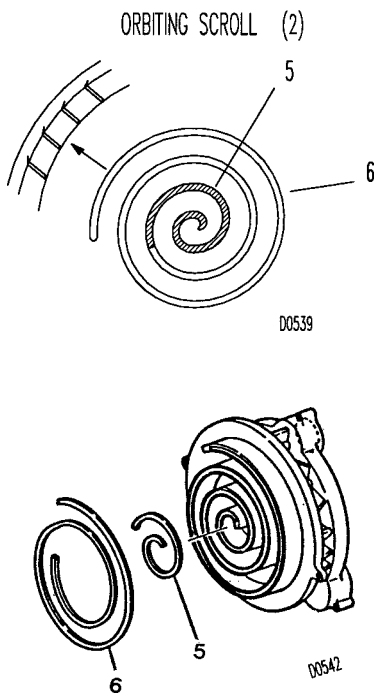


Fig. 4

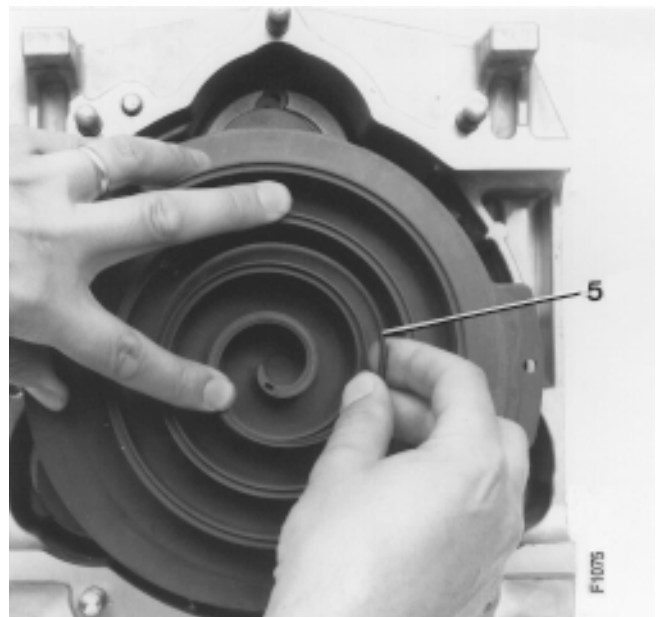
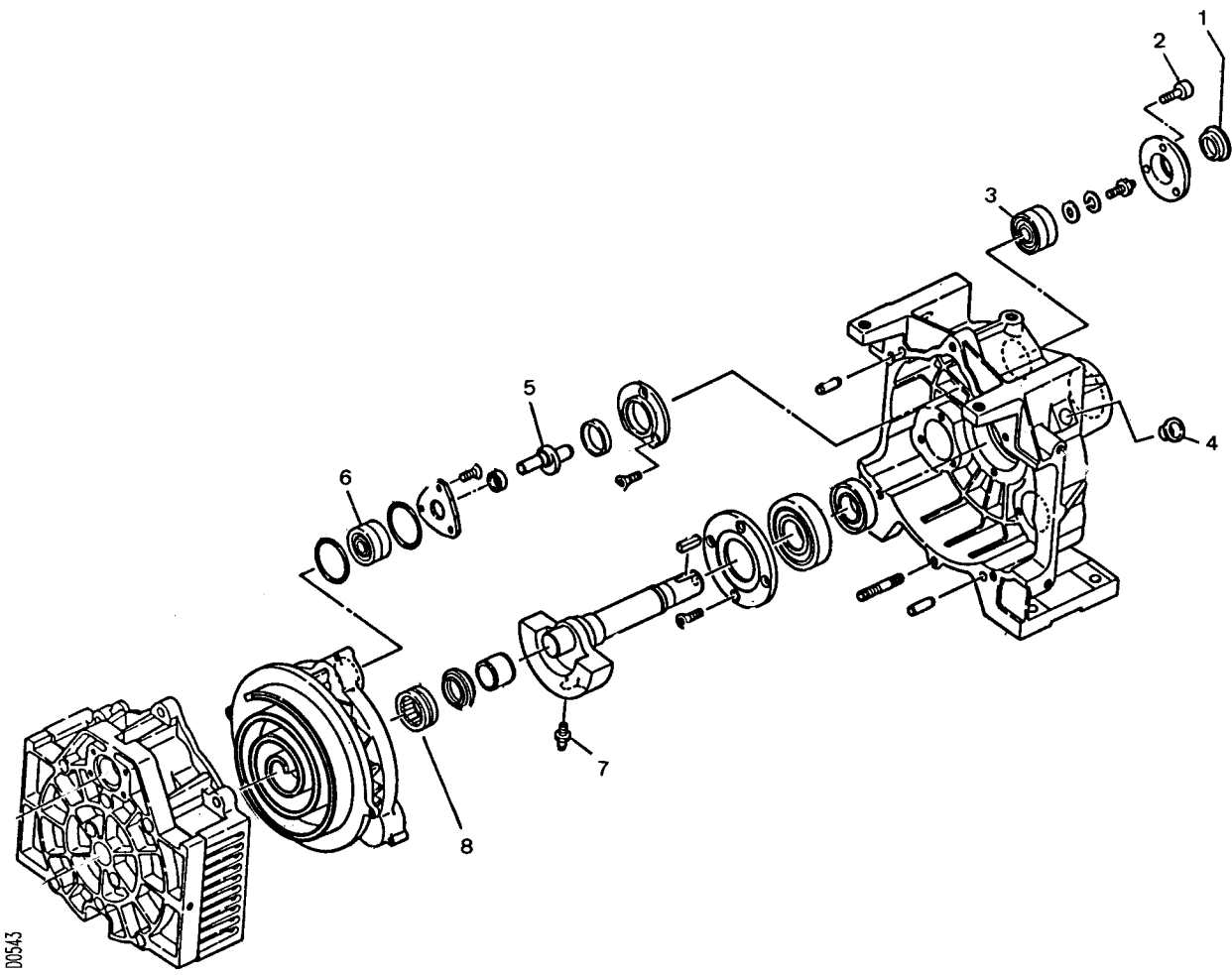


Fig. 5



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Fig. 6

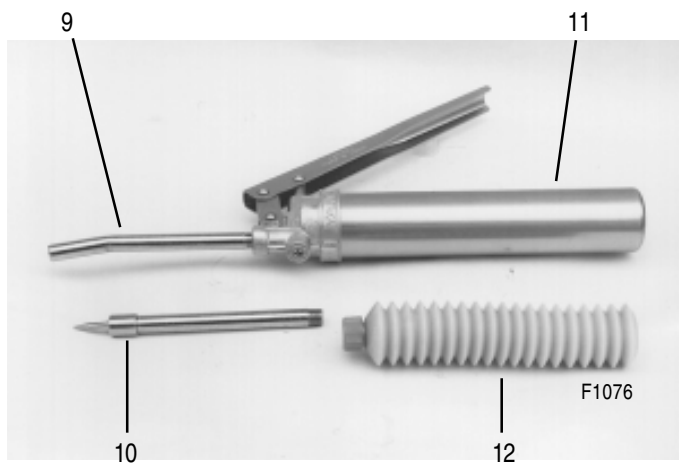
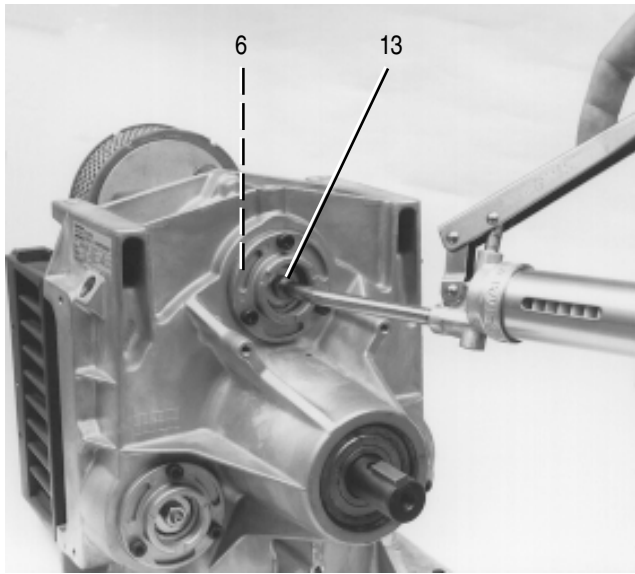
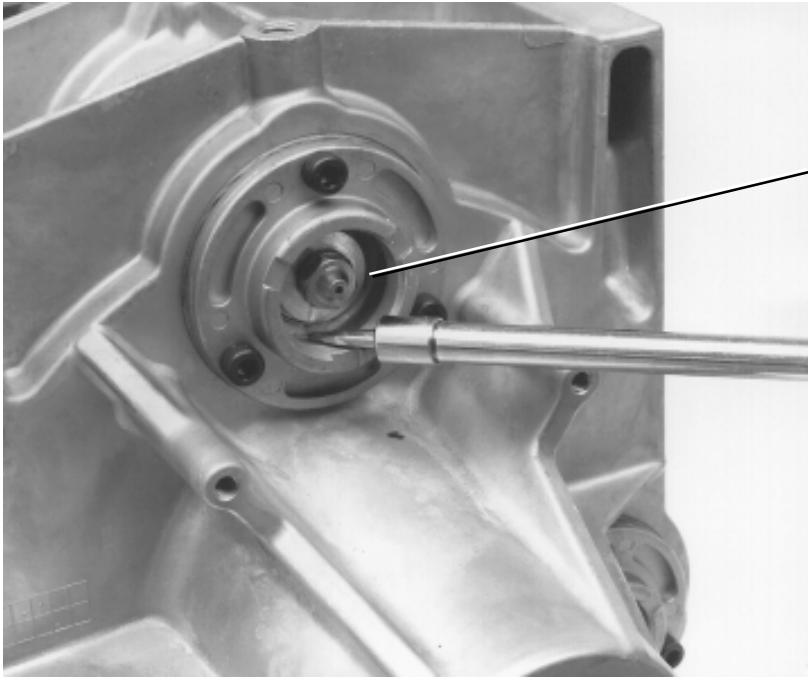


Fig. 7



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Fig. 8



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Fig. 9

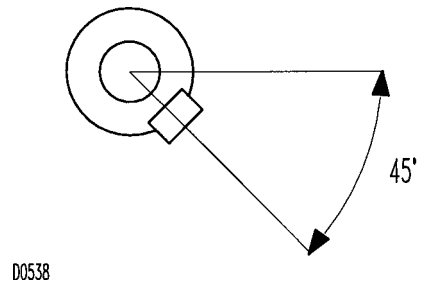
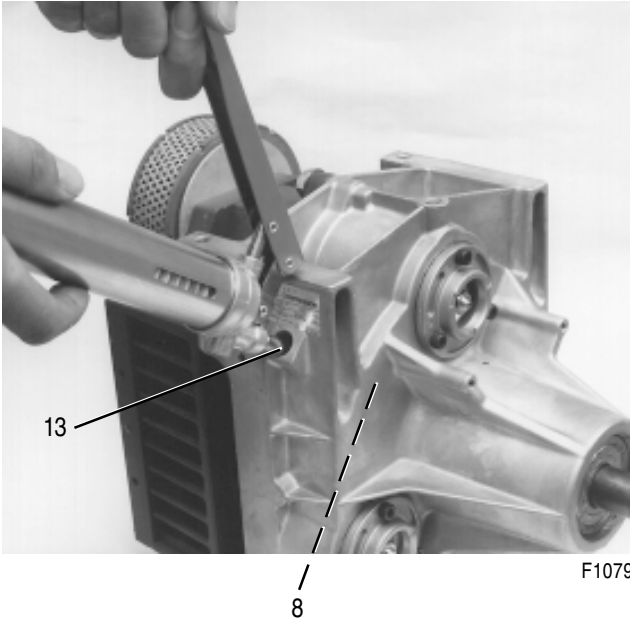


Fig. 10



