O.C.D.B. Rear Brake Seals

- PARK BRAKE PISTON
- PARK BRAKE SPRINGS
- SERVICE BRAKE PISTON
- SERVICE PISTON RETURN SPRINGS
- SPLINED DISCS AND FRICTION PLATES

- SERVICE BRAKE RESIDUAL 3.5 bar (50 psi)
- SERVICE BRAKE APPLY 52 bar (750 psi)
- PARK BRAKE HOLD OFF PRESSURE 82 bar (1200 psi)

A – Face to Face Seal
B – Face to Face Seal
C – Park Brake Seal
D – Service Piston Seal

End View – See following page
1. Thoroughly clean and degrease all metal parts.

2. Lay parking piston on its side with seal groove uppermost and fit red silicon O Ring. Fit PTFE bronze Sealing Ring using fitting tapes. (ref. 1). Ensure sealing lip points towards pressure (ref. 2).

3. Fit guide band to parking piston after exposing adhesive transfer tape on the inside. Starting in the middle and moving to the two ends. It is recommended that 2 people are needed for this operation.

4. Fit O Ring into groove on disc housing. Fit PTFE bronze seal using kidney shaping technique (ref. 3 and 4). Smooth the kinked portion of the seal back to a circular shape. Ensure sealing lip points towards pressure, as above.

5. After exposing the adhesive transfer tape, fit the guide band to the disc housing as Step 3, noting that the transfer tape is on the outside. Oil all parts including seals and carefully offer piston into disc driver.

Numbers Based on TR60/TR100 Installation
Face to Face Seal (A)

Seal Installation Instruction for Mechanical Face Seals
Reference 15302752 (TR60/70/100) & 15302753 (TR45)

Inboard Half.
1. Remove face seal from packaging.
2. Thoroughly degrease seal rings, torics and housings with a non petroleum based solvent prior to assembly. Wipe dry and ensure the toric rings are not twisted when replaced back on seal rings.
3. Insert one half of new face seal into split fitting tool.
4. Pass over spindle and press into disc driver housing using an even pressure on tool. Seal should pop into housing.
5. Remove split fitting tool.

Outboard Half.
1. Remove and clean face seal as in points 1 & 2 above.
2. Insert other half of new face seal into split fitting tool.
3. Using even pressure, press face seal into inner seal housing as before.
4. Remove split fitting tool.

Note. Both seal faces should sit parallel with the housing. Toric ring should not be twisted or partly bulged out of housing. Immediately prior to assembly, clean seal face with a lint free wiper and apply a thin film of clean oil to sealing face. Oil must not wet any other surface.
To ease assembly of face seals into housing, a non petroleum based solvent can be wiped on toric prior to assembly. Recommended assembly lubricant – Isopropyl Alcohol.
Seal Installation Instruction for Mechanical Face Seals
Reference 15247216 (TR60/70/100) & 15249832 (TR45)

Inboard Half.

1. Tear plastic film from cardboard backing. It is not necessary to cut seal from package which could damage toric rings.
2. Thoroughly degrease seal rings, torics and housings with a non petroleum based solvent immediately prior to assembly. Wipe dry and ensure the toric rings are not twisted when replaced back on seal rings.
3. Insert ‘seal sleeve’ tool into spring housing as far as it will go.
4. Insert seal installation ‘garter spring’ on one half of face seal between toric and seal ring. It is recommended that you wrap some tape or ribbon around the spring to provide easy removal once in position.
5. Place assembly into bottom of ‘seal sleeve’ and press into face seal housing using ‘seal driver’.
6. Remove ‘seal driver’ and ‘seal sleeve’ from spring housing. Remove ‘spring’ from face seal.
Face to Face Seal (B)

Seal Installation Instruction for Mechanical Face Seals
Reference 15247216 (TR60/70/100) & 15249832 (TR45)

Outboard Half.
1. Remove seal from packaging and clean as in points 1 & 2 above.
2. Insert assembled seal into split fitting tool.
3. Place squarely over seal housing and with even pressure, press home.
4. Remove split fitting tool.

Note. Both seal faces should sit parallel with the housing. Toric ring should not be twisted or partly bulged out of housing. Immediately prior to assembly, clean seal face with a lint free wiper and apply a thin film of clean oil to sealing face. Oil must not wet any other surface. To ease assembly of face seal into housing, a non petroleum based solvent can wiper on toric prior to assembly. Recommended assembly lubricant – Isopropyl alcohol.

For Seal Kit 15247216 Use Fitting Tool 15265300
For Seal Kit 15249832 Use Fitting Tool 15269782
Service Piston Seal (D)

Correct installation of 'D' ring