FAULT FINDING

BRAKE & CLUTCH HYDRAULIC CYLINDERS



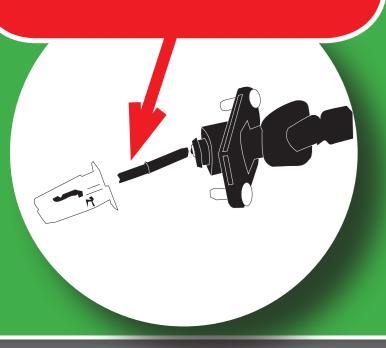
BRAKE MASTER CYLINDER

1) SPONGY BRAKE PEDAL AFTER BLEEDING MAY MEAN A FAULTY MASTER 2) LEAKING MASTER MEANS DAMAGE TO SEALS

- 3) IF BLACK BRAKE FLUID IS SEEN IN A NEW MASTER THEN OLD FLUID WAS USED WHICH COULD CAUSE DAMAGE - NO RFC
- 4) ENSURE NEW PART RETURNED IN BOX AND NOT **CUSTOMERS OLD PART/ GENUINE PART**
- 5) PARTS THAT HAVE BEEN OPENED AND TAMPERED WITH BY CUSTOMERS - NO RFC



 BROKEN MOUNTING BROKEN PUSHROD



CHECK FOR DAMAGED FERRULE

CLUTCH MASTER METAL / PLASTIC

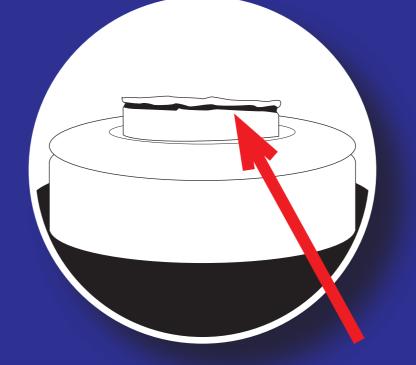
- I) IF BLACK BRAKE FLUID IS SEEN IN A NEW MASTER THEN OLD FLUID WAS USED WHICH COULD CAUSE DAMAGE - NO RFC
- 2) LEAKING MASTER MEANS POSSIBLE DAMAGE TO SEALS
- 3) BROKEN MOUNTINGS INDICATES INCORRECT TIGHTENING PROCEDURE AND UNCLEAN SURFACE - NO RFC
- 4) IF LEAKING FROM PIPE FITTING, CHECK CROSS THREADS / OVER TIGHTENING -NO RFC
- 5) A BENT OR BROKEN PUSHROD INDICATES FAULTY CLUTCH PEDAL PARTS OR INCORRECT FITMENT NOT A FAULTY CYLINDER - NO RFC
- 6) ENSURE NEW PART RETURNED IN BOX AND NOT CUSTOMERS OLD PART/ GENUINE PART
- 7) PARTS THAT HAVE BEEN OPENED AND TAMPERED WITH - NO RFC

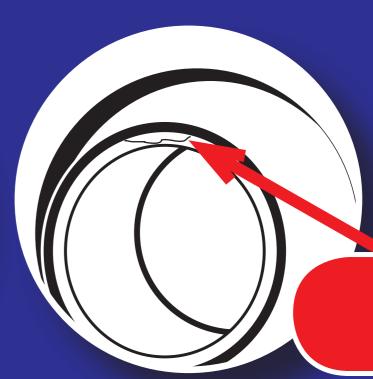
Hydraulic cylinders are safety critical and should be fitted by a qualified person in an accredited work shop.

CPD offers a 6 month warranty on AUTO CYLINDER products, limited to material or manufacturing defects, signs of abnormal operating conditions or fitting faults are excluded.

> Please include claim analysis form with all credit returns.

CONCENTRIC SLAVE CYLINDER





THE INTERNAL SEAL HAS **SIGNIFICANT DAMAGE**

1) A DAMAGED END CAP IS DUE TO OVER STROKING* OR INCORRECT ASSEMBLY OF THE FRICTION PLATE (OVER STROKING WILL ALSO DAMAGE THE INTERNAL SEAL) - NO RFC *OVER STROKING = DO NOT PUMP THE PEDAL RAPIDLY.

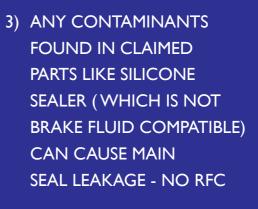
THE CSC REAR SEAL HAS BECOME **DISLODGED FROM ITS SEAT**

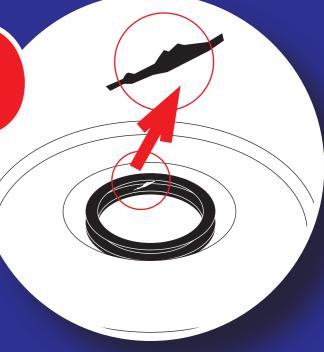
2) A POPPED SEAL INDICATES INCORRECT BLEEDING PROCEDURE OR INCORRECT FITMENT PROCEDURE - NO RFC



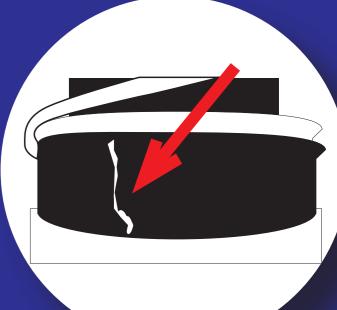
ALUMINIUM METAL FILINGS CAUSING

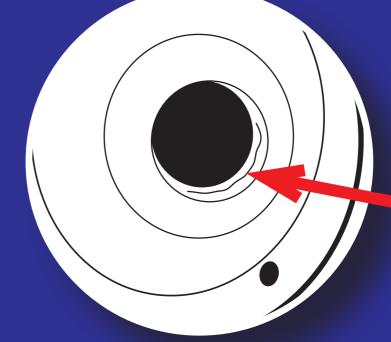
LEAKAGE FROM GEAR SIDE





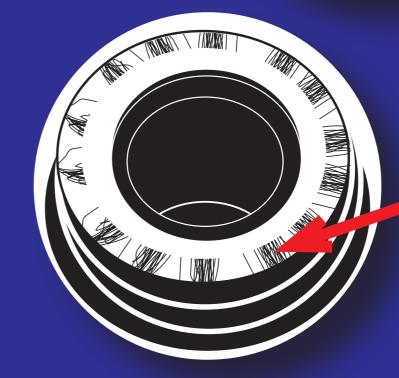
4) A CRACKED BODY **INDICATES INCORRECT** MOUNTING PROCEDURE OR **BLEEDING PROCEDURE -**NO RFC





CRACKED CSC BEARING

5) CRACKED BEARING GUIDE INDICATES INCORRECT MOUNTING PROCEDURE (OVER TORQUED BOLTS OR BOLTS MISSING) OR CSC MISALIGNMENT -NO RFC



THE WEAR ON THE BEARING **CONTACT FACE INDICATES THIS ISSUE**

6) A RELEASE BEARING IN THIS CONDITION ON A CLAIMED PART INDICATES EXCESSIVE MISALIGNMENT OF THE RELEASE BEARING AS WELL AS EXCESSIVE PRE-LOAD OF THE RELEASE BEARING - NO RFC





- 2) ENSURE NEW PART RETURNED IN BOX AND NOT CUSTOMERS OLD PART/ **GENUINE PART**
- 3) IF LEAKING FROM PIPE FITTING, CHECK **CROSS THREADS - NO RFC**
- 4) PARTS THAT HAVE BEEN OPENED AND TAMPERED WITH NO RFC
- 5) LEAKING FROM BLEEDER NIPPLE OR
 - BROKEN BLEEDER NIPPLE = OVER TIGHTENING NO RFC



MAJOR SEAL DAMAGE DUE TO A SIGNIFICANT OVER STROKE OF THE **SLAVE CYLINDER**

CLUTCH SLAVE METAL / PLASTIC

- I) DAMAGED PISTON/ SEALS OR IF INTERNALS HAVE POPPED/OVER STROKED MEANS INCORRECT FITMENT OF PUSHROD DURING BLEEDING - NO RFC
- 2) LEAKING CYLINDER CAN ALSO BE CAUSED BY CONTAMINATED FLUID (BLACK FLUID) - MOISTURE (CAUSES RUST) FINE PARTICLES (CAUSES FATIGUE) - NO RFC
- 3) BROKEN MOUNTINGS MEANS INCORRECT TIGHTENING PROCEDURE AND UNCLEAN SURFACE - NO RFC
- 4) IF LEAKING FROM PIPE FITTING, CHECK CROSS THREADS / OVER TIGHTENING -
- 5) PARTS THAT HAVE BEEN OPENED AND TAMPERED WITH NO RFC
- 6) LEAKING FROM BLEEDER NIPPLE OR
- BROKEN BLEEDER NIPPLE = OVER TIGHTENING NO RFC

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www.capeparts.com

Tel: 041 487 1471

