




# INSTRUCTIONS FOR THE REMOVAL AND FITMENT OF NEW WHEEL CYLINDERS

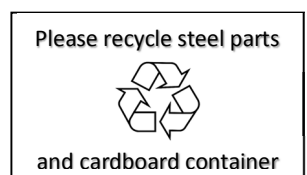
## FIT THE WHEEL CYLINDER ONE SIDE AT A TIME SO THAT YOU HAVE THE OPPOSITE SIDE AS A REFERENCE ON FITMENT AND POSITIONING OF THE WHEEL CYLINDER, BRAKE SHOES, SPRINGS AND CLIPS



1. LOOSEN THE WHEEL BOLTS OR NUTS USING A WHEEL SPANNER
2. CHOCK THE WHEELS THAT ARE NOT BEING JACKED UP
3. JACK UP THE VEHICLE USING A SUITABLE JACKING POINT
4. INSERT AXLE STANDS AT SUITABLE POINTS FOR YOUR SAFETY
5. REMOVE WHEELS
6. RELEASE THE HANDBRAKE AND IF NECESSARY ADJUST THE HANDBRAKE ADJUSTMENT DOWN, SO THAT THE REAR DRUMS CAN BE REMOVED
7. REMOVE THE REAR BRAKE DRUMS
8. CLEAN OUT THE BRAKE DRUMS AND BACKING PLATE USING SOAPY WATER AND A BRUSH OR A SUITABLE DEGREASER
9.  DO NOT USE PARAFIN, TURPENTINE OR PETROL ON BRAKE SHOE LININGS AS THEY ARE MINERAL BASED AND WILL LEAVE OILY RESIDUE BEHIND ON THE FRICTION MATERIAL
10. USE BRAKE PARTS CLEANER OR SOAPY WATER
11.  AVOID BLOWING DUST OUT WITH COMPRESSED AIR AS THIS COULD BE DETRIMENTAL TO YOURSELF AND THE PEOPLE WORKING IN CLOSE PROXIMITY TO YOU
12. USING A SPRING MOUNTING TOOL OR A PAIR OF PLIERS, REMOVE THE BRAKE SHOE RETAINING PINS AND SPRINGS
13. USING BRAKE SPRING PLIERS, REMOVE BRAKE SHOE SPRINGS. REMOVE CROSS BRACE AND ADJUSTER
14. BRAKE SHOES SHOULD NOW BE LOOSE EXCEPT FOR THE HANDBRAKE LEVER WHERE THE HANDBRAKE CABLE IS STILL ATTACHED.
15. DETACH THE CABLE FROM THE HANDBRAKE LEVER
16. REMEMBER TO CHECK POSITIONS OF BRAKE SHOES AS WELL AS SPRINGS AND CLIPS ON THE BACKING PLATE BEFORE REMOVAL. DO ONE SIDE AT THE TIME. SHOULD THE REPOSITIONING OF THE SPRINGS AND CLIPS BE FORGOTTEN, CHECK THE OTHER SIDE.
17. INSPECT BRAKE DRUM FOR DAMAGE OR WEAR
18. MEASURE DRUM TO CHECK IF THE DRUM IS STILL WITHIN THE PERMISSIBLE WORKING DIAMETER CAST OR STAMPED ONTO DRUM. IF IT HAS EXCEEDED THE MAXIMUM DIAMETER REPLACE DRUM. THE NORM IS 2mm BIGGER
19. SKIM OR REPLACE BRAKE DRUM IF NECESSARY
20. LOOSEN BOLTS THAT FIX WHEEL CYLINDER TO BACKING PLATE.
21. REMOVE BRAKE HOSE, IT IS RECOMMENDED TO DRAIN ALL BRAKE FLUID AND REPLACE WITH NEW SPECIFIED FLUID.
22. REMOVE WHEEL CYLINDER FROM BACKING PLATE WITH SEAL OR ACCESSORIES.
23. COMPARE NEW CYLINDER TO THE ONE REMOVED. IF THERE IS A DIFFERENCE THIS WILL REDUCE BRAKE PERFORMANCE.

COMPARE BORE SIZES AS THESE MAY DIFFER.  ENSURE THE SIZES ARE THE SAME.

24. FIT NEW CYLINDER IN REVERSE ORDER TO DISASSEMBLY. ENSURE SEAL OR ACCESSORIES ARE TRANSFERRED TO NEW CYLINDER. IT IS RECOMMENDED TO REPLACE WHEEL CYLINDERS ON BOTH SIDES OF THE VEHICLE.
25. ENSURE ADJUSTER IS SERVICED BEFORE REFITTING. CLEAN ADJUSTER AND LUBRICATE THE THREAD WITH GREASE.
26. REFIT BRAKE SHOES IN REVERSE ORDER TO DISASSEMBLY
27. ENSURE NOT TO GET ANY GREASE OR BRAKE FLUID ONTO THE BRAKE SHOE LININGS
28. ENSURE THAT THE HANDBRAKE LEVERS ARE FULLY RETRACTED BEFORE BRAKE SHOE ADJUSTMENT BEGINS
29. CHECK HANDBRAKE CABLE TO ENSURE FREE MOVEMENT
30. SERVICE OR REPLACE ANY STICKY OR SEIZED HANDBRAKE CABLES
31. REFIT THE BRAKE DRUMS
32. ADJUST THE BRAKE SHOES TO MANUFACTURERS SPECIFICATIONS
33. ADJUST THE HANDBRAKE TO MANUFACTURERS SPECIFICATIONS
34. BLEED BRAKE SYSTEM ACCORDING TO MANUFACTURERS SPECIFICATIONS AND ENSURE THERE ARE NO LEAKS. USE SPECIFIED BRAKE FLUID.
35. REFIT WHEELS AND TIGHTEN BOLTS OR NUTS TO MANUFACTURERS SPECIFICATIONS
36. REMOVE AXLE STANDS AND JACK DOWN THE VEHICLE
37. REMOVE CHOCKS
38. TEST DRIVE VEHICLE AND BED IN BRAKE SHOES.



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