

BMS BAKERY MACHINERY SERVICE PTY LTD
Changing The Door Pins On The “John Willett” Oven

- Step 1 Lubricate the grub screws and door hinge pins, using only (Tri-flow) teflon based oil. Remove small grub screws holding door hinge pins, from door hinges (item A – Refer to Attached drawing), by inserting allen key and then gripping the head of the screw with small vise grip pliers to undo. This prevents both the allen key breaking the head off the screw and the vise grips from crushing screw. You will not reuse these grub screws on any of the pins you are replacing.
- Step 2 Remove the circlips (item B) from both ends of centre hinge pin (where fitted) and from outside of outer hinge pins. These may also be discarded if the pins are being replaced.
- Step 3 Using a piece of 3/8 rod – remove the centre hinge pin away from door that is having the pins replaced (Galaxy and Big Bake ovens only). When hinge pin is clear of the door – door will drop slightly – hinge pin should still remain through the other door and to the edge of hinge bracket on the side from which door is being removed. Repeat procedure on the hinge pin on the outer side of the door – door will drop when pin is clear.
- Step 4 Remove the door by pulling it directly away from the oven, then lay the door on a table flat down on the door seals. Lubricate the new pins and then use them to replace the old pins, this will save you having to refit the spring on the door. **IF THE OLD PINS ARE CORRODED IN THE DOOR THEY WILL HAVE TO BE REMOVED BEFORE THE NEW PINS ARE FITTED.**
- Step 5 **IF SPRINGS HAVE BEEN REMOVED**
Insert the hinge pin through right hand door bush, with the retaining bolt hole to the outer edge of the door and through centre of the spring to ¼ way through. Using a 10mm dia. (3/8”) rod with a hole drilled up its centre – insert the other end of the spring in this hole. Pretension (wind-up) spring through half a turn and push hinge pin through spring whilst holding spring in tensioned position, until located in the other door bush – spring should then rest firmly against the bottom of the door, when tensioning rod is released. If the spring to be replaced is at the centre of the oven a temporary pin will need to be fitted through the smaller door bush and halfway through the pre-tensioned spring, to hold the spring in position temporarily. This will then be replaced by the larger centre pin pushing through spring and keeping the spring tensioned whilst also displacing the temporary hinge pin.
- Step 6 Spring retaining bolts in the front of the oven, should have the screw threads lubricated with Tri-flow oil and then screwed back into the oven front as far as possible. Removal of grates and tiles where fitted will allow better access to the retaining screws.
- Step 7 **BEFORE REFITTING THE DOORS AND PINS**
Drill the retaining bolt hole in the hinge plate on the front of the oven with an 11/64” drill. This is the clearance hole for the new pin retaining bolt which was supplied with the new pin.
- Step 8 **Refit the Doors**
The centre hinge pin of the door to be refitted should be tapped through the centre hinge bracket about 10mm. Located the door bush of the door to be refitted onto the protruding hinge pin, align door with other hinge bracket, and gently tap pin into position. Be sure to align the retaining bolt hole in the hinge pin with the hole in the hinge bracket. Check the position of retaining bolt hole in the centre hinge pin and locate back to original position.
- Step 9 With the door fully open – use a screwdriver blade to lift the tip of the spring resting on bottom of the door – insert spring end into the slot end of the tool made from the square bar, with the round handle facing down ---- turn the bar tool towards the oven and align spring end with the hole in the retaining screw --- using pliers or vise grips --- screw retaining screw out over the spring end --- retaining screw should finish about 10mm from the spring diameter. Use the same procedure on the other springs.

