

## BALING PIN RETRACTION

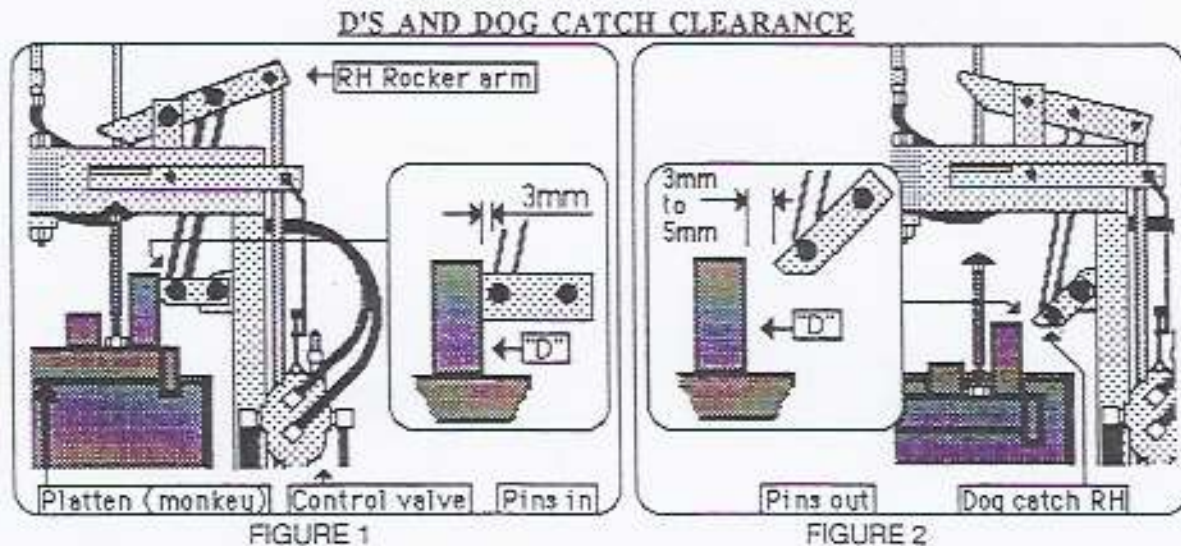
The retraction of the baling pins is a crucial part of the press's operation due to the fact you are actually pressing wool the same time as the pins are being withdrawn.

The pins are retracted by the "D" brackets, (which are welded to the monkey) pulling down on the dog catches, which are hanging each side of the main frame. To enable the pins to be fully retracted from the wool, the "D" brackets must remain in contact with the dog catches until the bellcranks drop over centre and the pins drop out to their fully retracted position. This length of contact or "travelling purchase" can only be achieved by having the gap between both components as close as possible once they have separated. No less than 3 mm and no more than 5 mm.

If this gap is too excessive due to wear on the dogs or distortion of the monkey, the "D" brackets will lose contact with the dog prematurely, leaving the pins partially in the bin while the wool is being pressed, resulting in the bending down of the pins. This in turn leads to the creeping out of the pins when heavier bale weights are achieved, because the pressure on the pins is outwards instead of upwards.

If the gap is too excessive and the pins are not fully retracting, first inspect the monkey for any distortion. The centre channel was prone to lift up on presses pre September 1985. (They are now strengthened) If this is the case the monkey should be taken off and straightened. Stiffeners should then be placed under the channel. The "D" brackets should be vertical and checked for wear. Once the monkey has been repaired and replaced, re-check the gap.

If the gap is still too large, check the dog catches for wear. All "D" brackets and dog catches have been case hardened since September 1985. Earlier models could show some excessive wear. If the dogs are worn, or wear is apparent in the loop at the top of the dog catch, replace them. In some cases it may be necessary to replace both the "D" brackets and the dog catches. It must be remembered that once you have made any alterations, care must be taken when first running the press until you are absolutely sure that there is still at least 3 mm gap between the "D" bracket and the dog catch.



## REPLACING D's AND DOG CATCHES

Position the monkey so that the underside of the "D" brackets are resting on the tops of the dog catches as in figure 1. If the clearance as shown in figure 1 is too great, the gap between the tip of the dogcatch and the "D" bracket will be excessive when in the down position as shown in figure 2. With the "D" bracket positioned, lightly tack-weld the "D" brackets in each corner. Make sure the dogcatch is centralised in the "D" bracket. Withdraw the pins. This will lower the dogcatches to the position shown in figure 2. Check the clearance. If this is found to be less than 3mm to 5mm, grind back the tips of the dogcatches until the right clearance is achieved. Once you have checked all the clearances, finish welding the "D's" to the monkey.