Canon

ATI-AZ-001-1

MODEL: iR2200/ 2800 / 3300

SUBJECT: Instructions for replacement of Upper Ratchet Gear (FB3-2856-000)

Detail:

Incorrect operation of the lifting mechanism may be a symptom of failure of the upper ratchet gear (FB3-2856-000). As shown in Figure 1 below, the ratchet teeth have broken and the remedy would be to replace this gear.

Unfortunately this part is difficult to remove and the purpose of this ATI is to provide an approved low cost field method for the removal of the upper ratchet gear FB3-2856-000.

Product Co-ordination would like to recognise the initiative of David Bretherton (Northern Region) and his efforts in piloting this solution

IMPORTANT NOTE: Please see information on Page 6 before commencing work

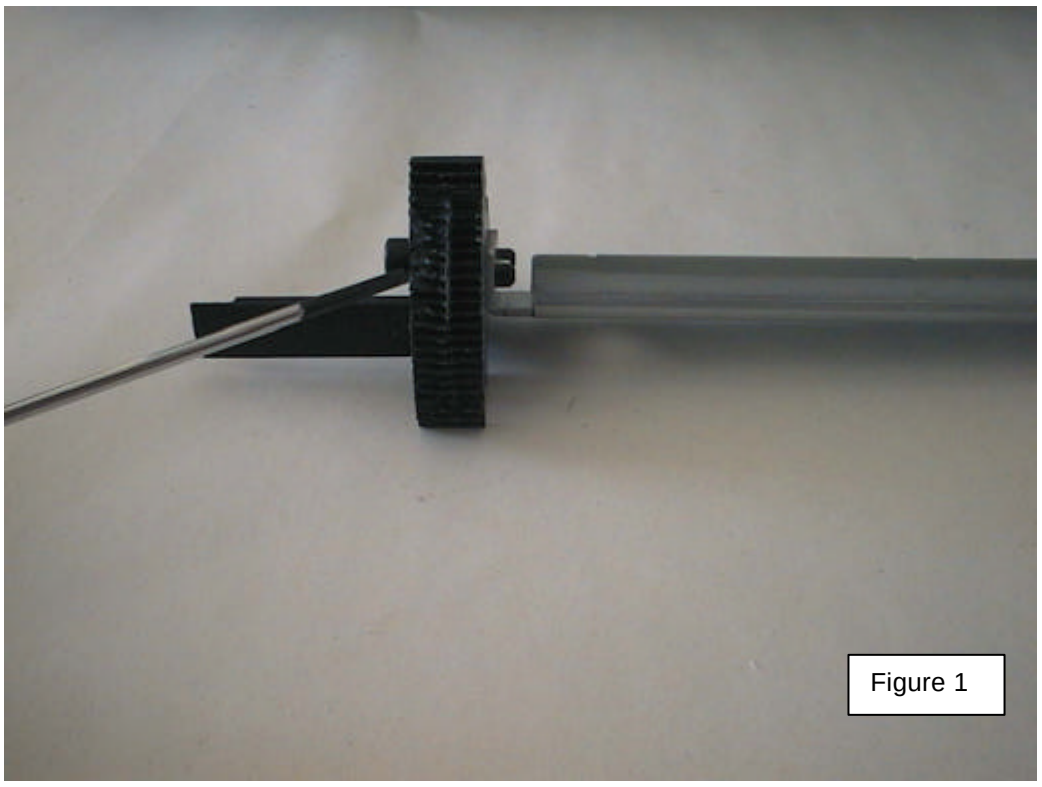

Figure 1

NB: It should be noted that Electroversal currently offer a repair service of these units.

Author: Bill Bailey/Phil Moore **Authorised: Lee Trevallion**

<Tools Required >

1 long nose pliers (large)	UK-1286-00T
1 junior hacksaw blade	UK-2664-00T
1 gland nut pliers	UK-2701-00T
1 cross point screwdriver (No. 2)	UK-PART-00T

<Parts Required >

1 ratchet gear	FB3-2856-000
1 2 by 12mm dowel pin	XD3-2200-122
1 2.5mm angled hex key	

Procedure

STEP 1

Remove the screw as shown in figure 2.

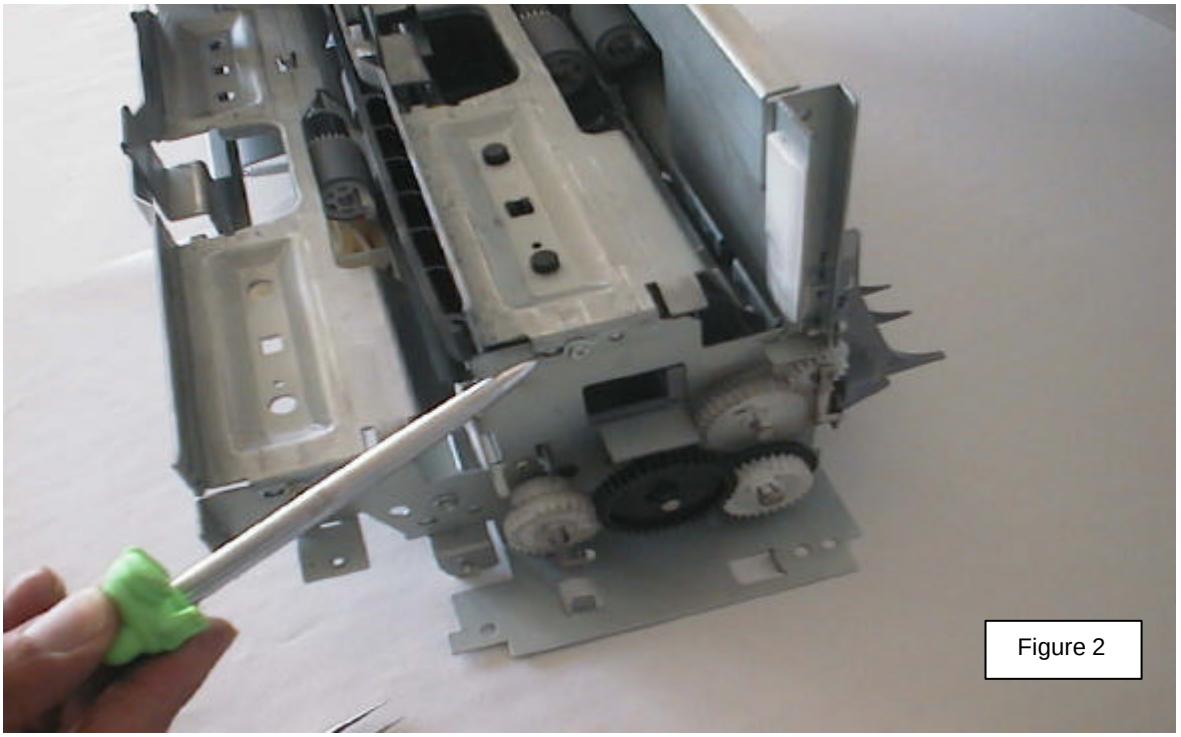

Figure 2

STEP 2

Lift the cross member as shown in figure 3, and remove both front and rear black plastic guides. Also remove the 'A' and 'B' feed rollers as per normal service procedure.

Figure 3

STEP 3

Using the junior hacksaw blade and a clean cloth in which to hold it (preventing injury to hands) cut through the lifter arm support peg as shown in figure 4.

The cut must be made central to the exposed peg and between the spring windings, but actual position is not critical, the aim is to remove approximately half of the peg.

NB: Take care not to loose the cut off portion of the peg as this will be used later

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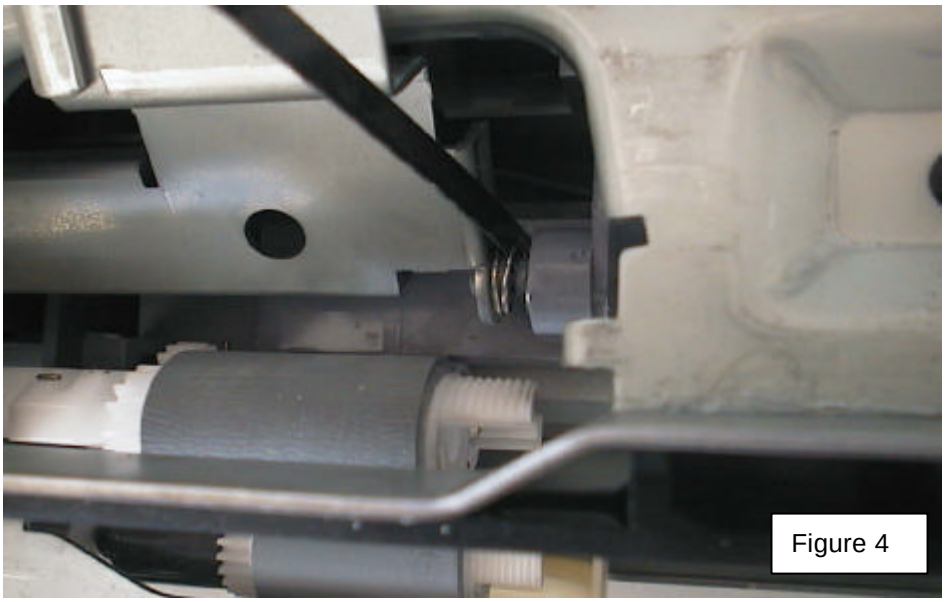

Figure 4

The paper lifting plate can now be removed easily by first removing the spring.

STEP 4

Insert the dowel (XD3-2200-122) pin into the cut portion of the peg previously removed as shown in Figure 5

Take care not to pinch your fingers.

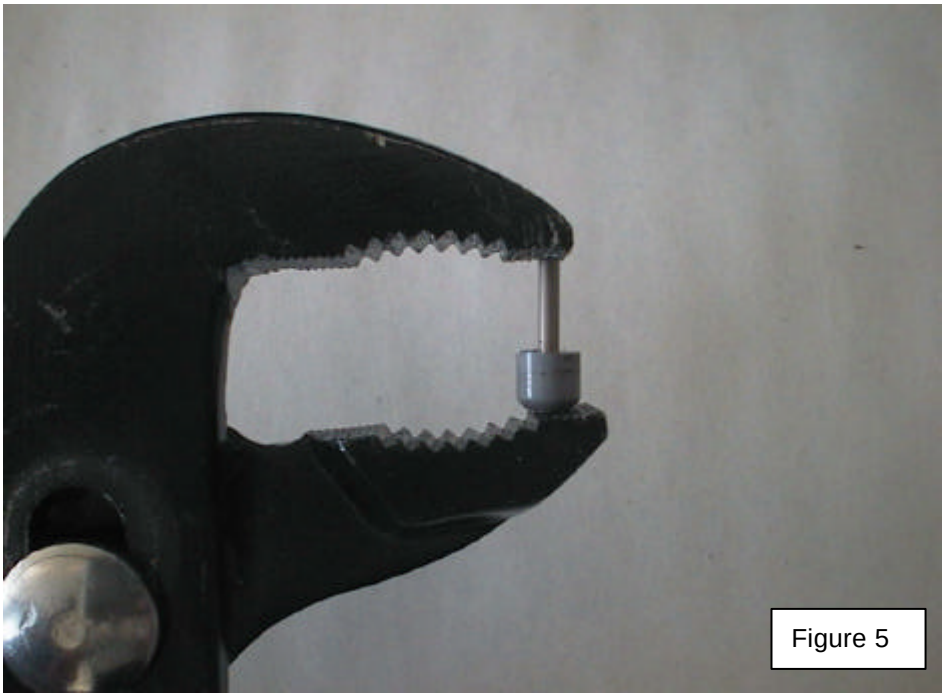

Figure 5

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STEP 5

Gently offer up and squeeze the assembled peg and pin into the cut off portion on the assembly, as shown in Figure 6, this will ensure that the pin can be fitted easily in step 7. Now remove the pin with the aid of cutters using a levering action.

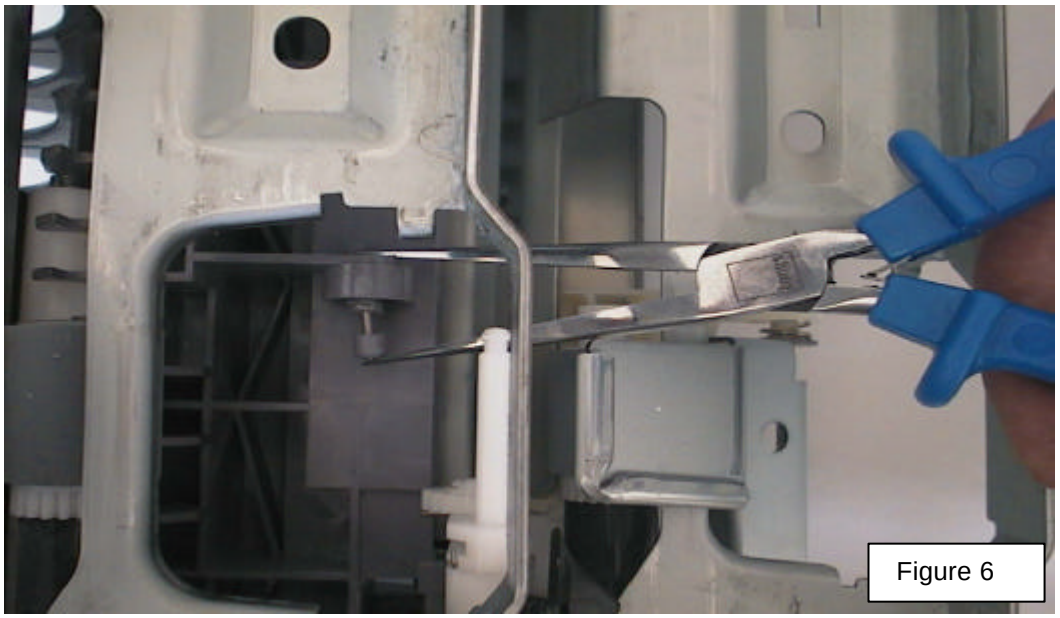

Figure 6

STEP 6

Reposition the lifter arm with new gear fitted and fit the spring back as shown in Figure 7.

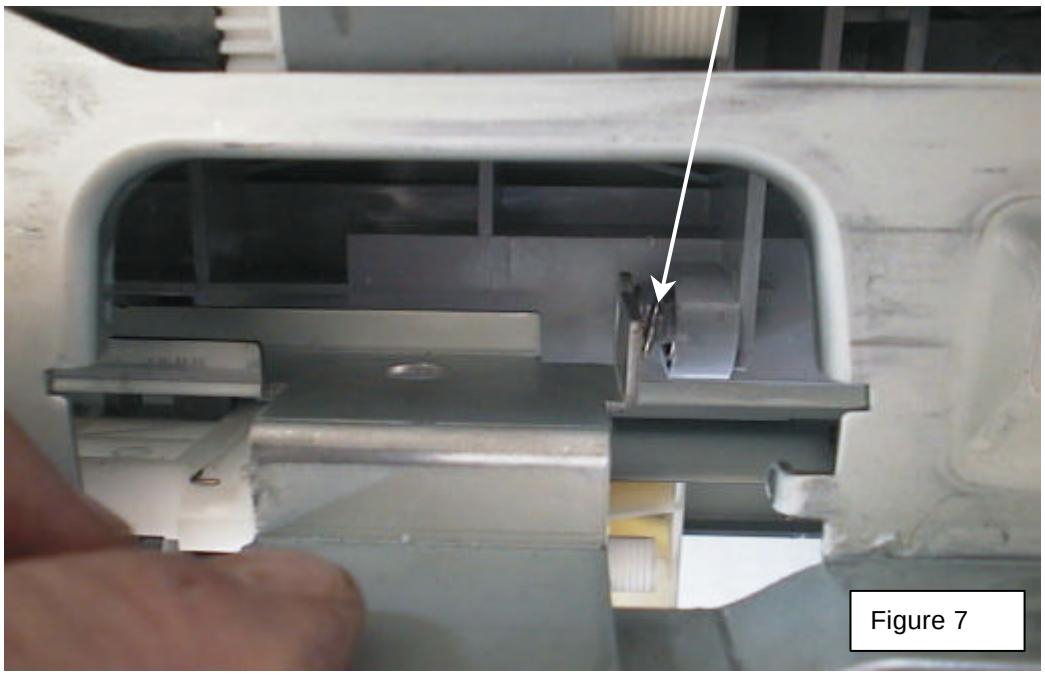

Figure 7

Confirm that the lifter arm moves freely without any restriction.

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STEP 7

Using long nose pliers, as shown in Figure 8, hold the peg in position and with the aid of the gland nut pliers gently squeeze the peg as far as it will go, check that the lifter arm moves smoothly on the peg in all directions. Reassemble the unit and test.

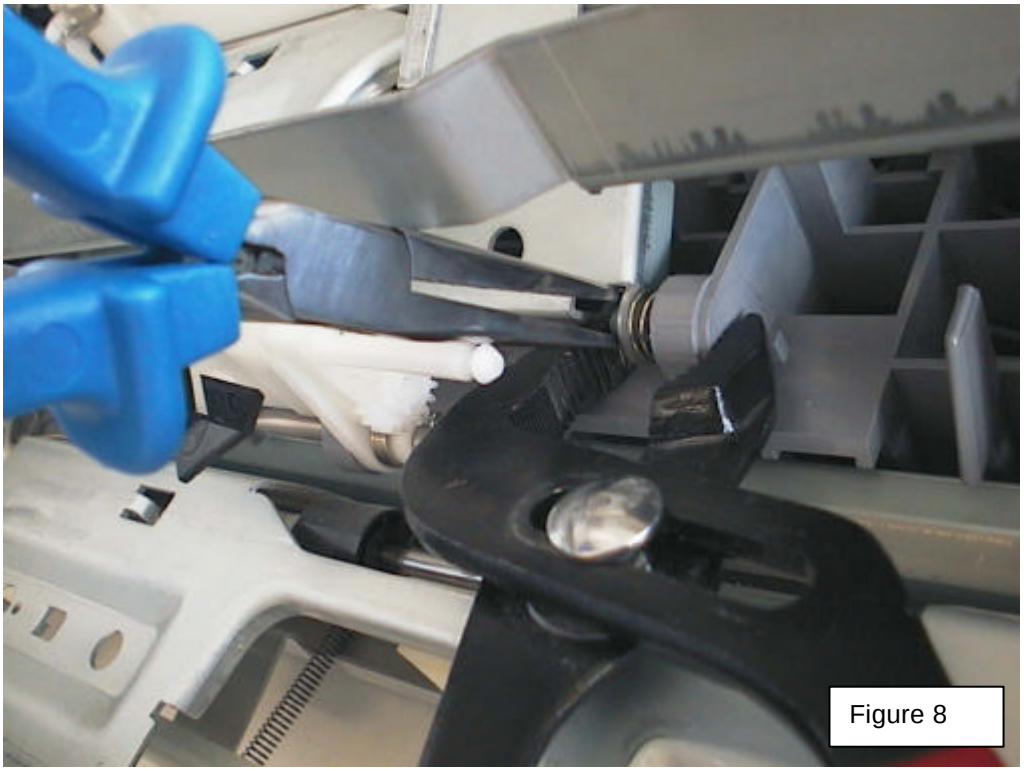
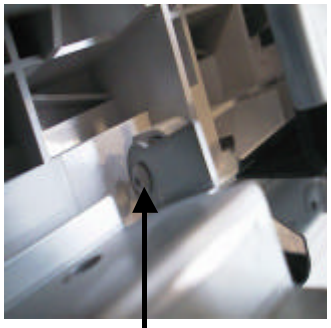
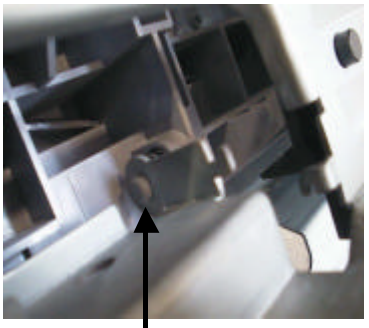


Figure 8



with Hole



without Hole

IMPORTANT NOTE

ON SOME UNITS THIS MODIFICATION IS NOT POSSIBLE AS THE 'PEG' HAS NOT GOT ANY HOLE FOR THE PIN TO BE PLACED IN. BEFORE COMMENCING IDENTIFY WHETHER THE UNIT IN QUESTION IS REPAIRABLE. THE ABOVE PICTURES SHOW BOTH TYPES OF UNIT.

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