

# Wire Straighteners

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The wire straighteners should be checked monthly. Check for proper adjustment and the rollers for true running. The wire straighteners were designed to cut down on wire change over time. This was accomplished by the implementation of the quick release winged handle. The following is a guideline used to adjust the wire straighteners. Tools needed: (1) 3mm Allen wrench.

**Note: Please refer to the diagram on last page.**

## **Roller adjustment:**

Open the quick release, winged handle 11 counter clockwise. Next turn the tension handle 12 counter clockwise until the upper rollers open completely. Using the Allen wrench, loosen the two M5x12 button head bolts 17. Pass wire through the straighteners. Close the quick release, winged handle clockwise.

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Turn the tension handle 12 clockwise closing the upper rollers midway. The bottom row of rollers will be adjusted non-parallel to the top rollers. This is done by moving the incoming side of the lower rollers closer to the top, deforming the wire. Then gradually open the out going side so that the last rollers, top and bottom, just touch the wire (see the drawing enclosed). Tighten the two M5x12 button head bolts 17 with the 3mm Allen wrench. Over tightening the wire straighteners can cause length variations and slippage between the drive belts.

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Drawing Number	Description	Part Number
1	Plate, fixed	018793
2	Plate, moveable	018794
3	Plate, main	018795
4	Eccentric	018796
5	Metal sheet	018797
8	Bearings	005719
9	Spring, compression	018802

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10	O-ring	010440
11	Handle, wing	018803
12	Handle, knob	018804
14	Ring, adjusting	030461
15	Nut, M6	001970
17	M5x12 head socket cap screw	005366
18	M5/6x10 shoulder bolt	010478
19	Pin, dowel	018805

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20	M5x5 set screw	001891
21	M6x22 set screw	018917
22	M6x35 set screw	018806
23	Washer, flat	001750

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