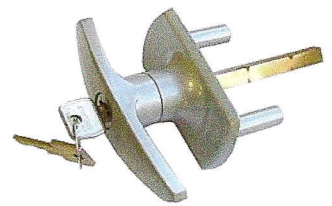




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FITTING INSTRUCTIONS
For Birtley & King Garage Doors



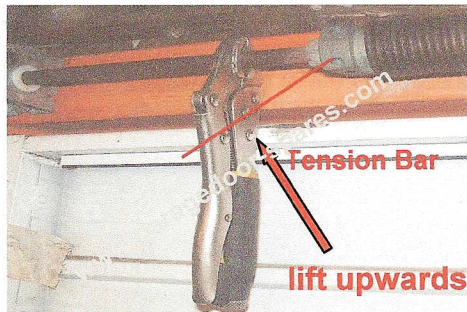
SAFETY NOTE

The overhead spring is under a great deal of tension!
Great care should be taken to follow the instructions carefully.
If you have any doubts please consult a qualified person, or
e-mail richard@garagedoor-repairs.co.uk

All work is undertaken at your own risk!

All work is undertaken from inside the garage therefore ensure that all tools required are at hand, you may need two people to make the job easier for you!

Picture 1



1. Ease the tension off the cables by rotating the spring axle shaft upwards as in the picture 1, look to your left and you will see the roll pin in the left hand cone slowly appear.

When the roll pin is in a horizontal plain & parallel to the ground securely clamp the spring shaft to prevent it rotating. (I use a pair of mole grips) Now all the tension is been held on the mole grips.

For safety reasons I place another pair of mole grips on the right side see arrow. This then allows you to take off the left side mole grips, if you need to release the left hand bracket away from the frame to allow the removal of the Cone.

(SOMETIMES YOU NEED TO TAKE THE BRACKET OFF THE FRAME TO ALLOW THE REMOVAL OF THE CONE!)

Picture 2



2. Remove the screws at the base of the channels this allows removal of the Cable from the spindles & the replacement of the new cables.

3. Use a **3.5mm dia. pin punch** to carefully drive out the roll-pin, knock it Straight into the wooden frame and out of sight, **if you have a metal frame then you will have to clamp off the spring shaft at 45degrees so that the pin has clearance of the frame!!**

Then reclamp in the horizontal position.

Picture 3



4. Remove the old cones, and replace the new cones that are colour coded white left hand, and red right hand.

PLEASE NOTE: Replace the new cones, align the holes in the cones with the hole in the shaft, making sure that the cable exits the cone at (left side 1-2 o'clock) (right side 10-11 o'clock) the cable needs to be heading away from you and down the back of the cone!

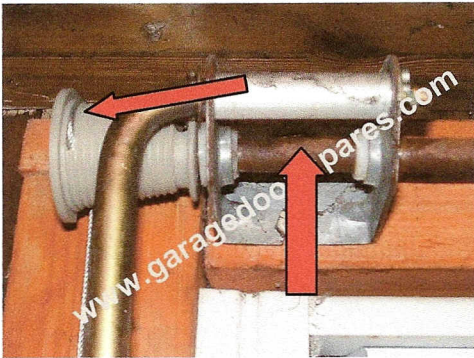
The cable is at this stage still slack until you release the tension back onto the cables then make sure that the cables are sat in the outer most grooves and are running vertical with no obstructions! (see picture 4)

Re-attach the cables to the spindles taking care to ensure they do not foul the jamb channels or the door arms. Replace the screws in the channels.

Tools Needed: Tension Kit , 3.5mm pin punch (King) mole grips, screw drivers, (wire cutters) hammer, oil

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Picture 4



5. Once you are sure that everything is in place and secure, put your tension bar back into one of the holes as in the picture 1, hold the tension on this bar and then release the mole grips, all the tension will now be on the bar. Slowly wind downwards using 2 bars (if needed) until all the tension is back on the cables!!

Double check that the cables are still as in picture 4. and in the outer grooves of the cone and running vertically.

Picture 5



Picture 6



PLEASE NOTE SOME KING DOORS YOU MAY HAVE PROBLEMS WITH THIS PART, AS THE OLDER DOORS HAVE A PLASTIC TYPE COLAR INSTEAD OF METAL AS IN THE PICTURE

How to add more tension to your Cables!

1. Lift tension off cables, **Pic 6**, at same time place mole grips as in **Pic 4**. between the bracket, this prevents the main bar also turning! The tension is now on the mole grips.
2. Place a tension bar in hole in collar, undo the allen screws, now all the tension is on the tension bar!
3. Wind upwards approx 10 -12 turns hold tension bar, tighten allen screws, release mole grips. make sure cables are correct.

If tension has been lost altogether run a chalk line along slack spring wind up until you see you can count 25 spirals along the spring, careful not to let tension slip from tension bars..

Tighten allen screws, release tension onto cables, check cables in outer grooves before lifting the door slowly for first time.

Oil every thing WITH A LIGHT OIL, NEVER USE GREASE!!