

Fitting Instructions For Cardale, Apex, Wickes Cones & Cables on 'CD 45' Vertically Tracked Gear

Tools Needed: 4mm Pin Punch Mole Grips, Screwdrivers,
(wire cutters) Hammer, (10mm Socket ,) Oil

Picture 1



1. The first thing you have to do is isolate the tension from the main spring!
I use 2 x pair of mole grips for this.
Place 22mm spanner on collar nut lift tension up, look to your left and you will see the roll pin appear. When the roll pin is horizontal to the ground then clamp off tightly with the mole grips as **Picture 1**.

If you have a metal frame, lift and clamp off at 45degrees so that you are able to knock out the roll pins, then lift the bar so the pin holes are as in **Picture 1**.

Picture 2



2. Knock out the roll pins with the **4mm Pin Punch**, straight into the wooden frame and out of sight.
Remove the old Cones.

Picture 3



3. If you cannot take off the old cone because of brickwork, then you may have to release the bracket as **Picture 3** to then allow you to slide the cone off.

First before you do this, place a second pair of mole grips on the right hand cones 22mm plastic nut **Picture 4**, then release the left hand pair of mole grips. This will allow the door to be pulled inwards to clear any brickwork whilst you remove old cone and replace new cone.

You may also have to release the lock cable to allow the door to be pulled inwards. **Picture 5**

Picture 4



Picture 5



Picture 6



4. Place new cone on the bar, & replace the bracket screws, Thread the cable down the tracks, making sure not to trap the cable.
Undo the track screws, push track to the side and connect cable onto the Roller Spindle, replace all screws. **Picture 6**

Line up the hole in the cone with the hole in the bar, making sure that the cable is leaving the at the rear of the cone, and running down the back of the cone!
(left side cone cable runs off at 1 - 2 o'clock)
(right side cone cable runs of at 10 - 11 o'clock)

Knock in the Roll Pins so taht 2-3mm sticks out on both sides.
Do the same on both siades when you have both cable on the next step is to release the tension back onto the cables.

Picture 7



5. Replace the mole grips on the left side **Picture 7** take off mole grips on the right side.
Place spanner on metal nut **Picture 7**, release mole grips and wind downwards, all the tension will be then transfered to the cables.

Picture 8



6. Make sure the cables on both sides are not trapped and are running in the outer most grooves on the cone. **Picture 8**

Picture 9



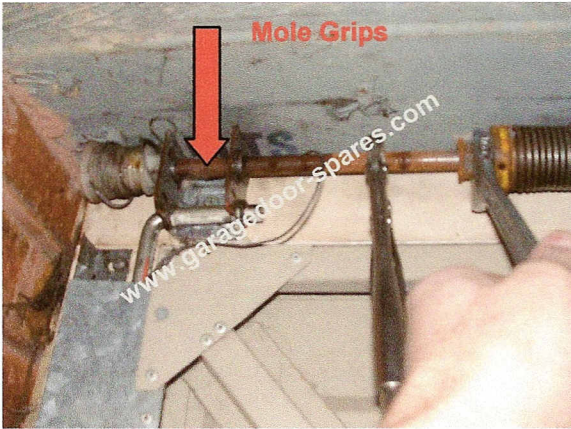
7. If you have problems with the cable jumping out of the groove, then knock a screwdriver into the frame **Picture 9** to help guide the cable into place.

Remember to remove the screwdriver before you lift the door.

Make sure the cables have tension on them, and the cables are not trapped , oil all moving parts.

Then slowly lift up the Garage Door. If the door requires more tension on the cables then follow the next few steps!

Picture 10



How to add more tension to your Cables!

1. Place mole grips on bar **Picture 10**, between the bracket , this prevents the main bar also turning when turning the main spring! (Ignore the mole grips in the picture 10)
2. Place a 22mm spanner / tension bar in hole in collar, **Picture 10**, undo the allen screws, now all the tension is on the tension bar!
3. Wind upwards approx 10 -12 turns using 22mm spanner & tension bars, hold tension bar, tighten allen screws, release mole grips. make sure cables are correct.

You may need to add even more turns in some cases.

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

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!