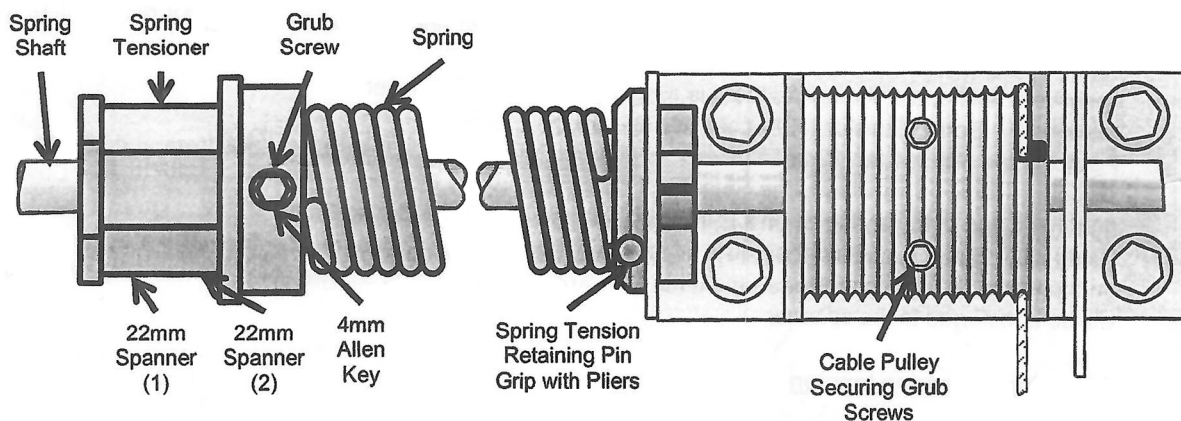


# Replacement Cables for Novoferm Single Framed Canopy Garage Doors

## Installation Instructions



## TOOLS REQUIRED

10mm Socket, Spanner - Removing Wheel Spindles  
22mm Spanner, 3 & 4mm Allen Key, Pliers - Tension Adjustment  
Ladder, 3 in 1 Lubricant, 2pt Pozi-Drive Screwdriver

## INITIAL CHECKS BEFORE COMMENCING WORK

1. Are one or both of the cables broken?
  - a. If one is broken then the tension will be being held by the other and the spring tension must be isolated
  - b. If both cables are broken then there will be no tension on the spring
2. The cables have a errule (lump of metal) on each end

## INSTALLATION

1. Ensure all tools and parts and fixings are inside the garage before commencing.
2. Isolate the spring tension
  - a. Locate the hole in the Spring Tensioning Bush that is at the Right Hand end of the spring and adjust the position of the Spring Shaft by applying the 22mm spanner to the Spring Tensioner at the Left Hand end of the spring to line up the hole in the Shaft with that of the Bush then push the Split Pin through both holes.

3. Removing the cable and ferrule from the pulley
  - a. Remove the Hexagonal Screws from within the Spring Anchor Bracket
  - b. Slacken off the Grub screws in the pulley, rotate and slide towards the middle of the spring to allow removal of the wire from the external side of the pulley (It maybe easier to get the wire from the slot then push the wire so the ferrule goes through the pulley and appears on the inside and continuing pulling to remove the remaining part of he cable)
4. Removing the cable from the Lower Wheel Spindle Bracket Assembly
  - a. By taking the four screws out of it, three from within the spindle bracket and one from the internal side.
  - b. Twist the Wheel spindle Bracket away from the Internal Support bracket, beware that as the bracket leaves the support plate the Bracket will spin, exposing the eyed slot in which the cable end is and therefore cable can be removed.
  - c. Remove the lower portion of the cable from the bracket.
5. Putting in the new cable
  - a. Push the new cable through the pulley from inside to outside ensuring the cable will slot into the slot on the outer edge of the pulley. Push the other end of the cable down the inside of the track from the top. The lower end should be below the lower end of the track allowing the ferrule to be put into the hole in the anti-drop hook. Ensure the Anti-drop "Hook" point is engaged in the track at the same time as the Wheel.
  - b. Put one ferrule in its housing in the pulley ensuring the wire is parallel to the frame as it enters the pulley.
  - c. Fit the lower end of the cable to the anti-drop hook by pushing the ferrule through the hole in the side of the hook ensuring the wire comes out of the top of the hook.
  - d. Line up the hook with the main bracket and twist the assembly back into place and re-attach to the door chassis and its support bracket.
  - e. Twist the pulley to take up any slack in the cable and tighten the grub screws.
6. Re-tensioning the Door (If only one cable is replaced)
  - a. Apply the 22mm Spanner to the Spring Tensioner while getting hold of the Split Pin at the opposite end of the spring with a pair pliers.
  - b. Lift the Spring Tensioner, gently, taking the pressure off the Split Pin, using Pliers take hold of the Split Pin and remove from spring shaft.
  - c. Slowly lower 22mm Spanner checking the tension of the spring tension is transferred to the cables and they become taught.
7. Re-tensioning the Spring if all the tension has been lost
  - a. Before adjusting the tension lubricate any thing that is round and rotates: IE Spring, All Pivot Points, Roller Wheels with a 3 in 1 type oil
  - b. At the left hand end of the spring there is a Hexagonal Spring tensioner
  - c. Isolating the Spring Tension (A Two person operation)
    - a. Person One, places the 22mm Spanner on the Hex of the Spring Tensioner, low down and lifts up a small amount – Person Two inserts the Retained 2" Split Pin through the hole in the Grey Spring Anchor Bush at the right hand end of the spring when it is lined up with the hole in the Spring Shaft.
    - d. Using 2 off, 22mm spanners, that will fit on the Hex of the Spring Tensioner and a 4mm Allen Key. Put a spanner on the hex of the spring tensioner and undo / slacken one of the grub screws at which point any spring tension will be transferred to the spanner.

## ADJUSTING THE SPRING TENSION

1. To INCREASE the tension on the Spring, make the door open faster - Ideally using the spanners alternately increase the spring tension by putting them on the hex low down and moving them upwards - Repeat this until two complete revolutions of the spring tensioner have been achieved (Take care to ensure one spanner is engaged on the hex at all times otherwise the spring will naturally unwind itself, VERY QUICKLY)

2. To DECREASE the tension on the Spring, make the door open to a lower height - Ideally using the spanners alternately decrease the spring tension by putting them on the hex high up and moving them downwards Repeat this until two complete revolutions of the spring tensioner have been achieved (Take care to ensure one spanner is engaged on the hex at all times otherwise the spring will naturally unwind itself, VERY QUICKLY)

## FINAL CHECKS

Lubricate the Doors round all rotating parts (Spring Shaft Brackets, Link Arm Ends, Wheel Spindles) with a 3 in 1 oil.

De-latch the door and open the door slowly / gently checking the wires are in the groove.

If the door does not raise unaided to between waist and chest level then add more tension to the spring.