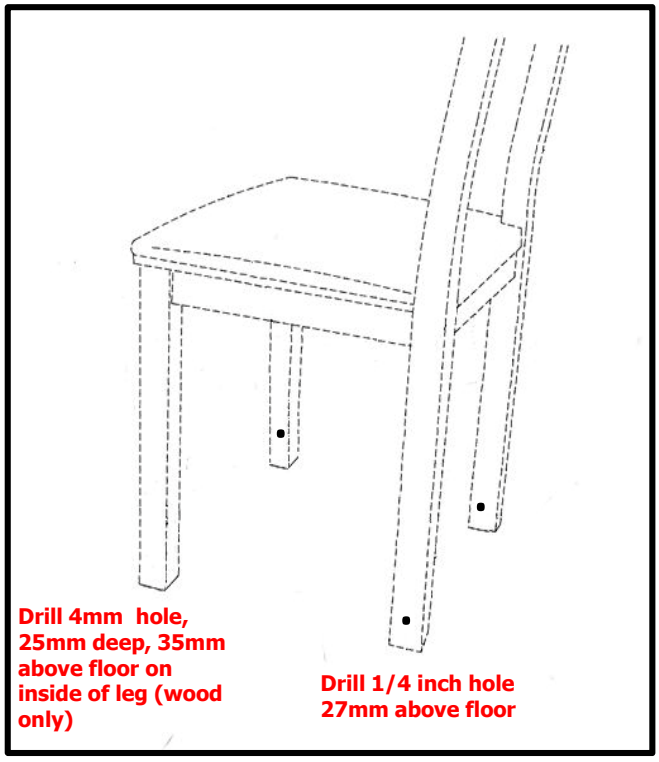
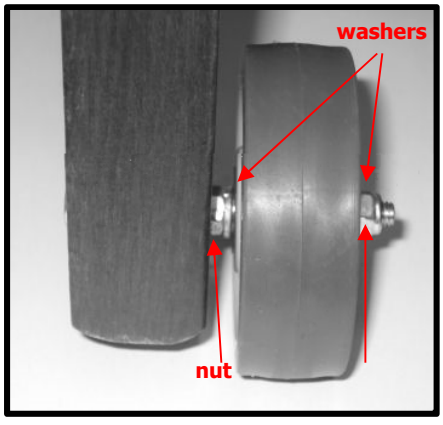
Installation instructions for the millie-mova

24th July 2015

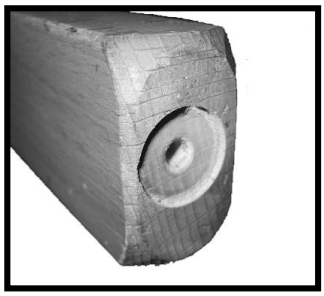
1. **Start** - remove any felt or Nylon sliders from the bottom of wooden leg chairs (not applicable to front leg of metal chairs). Bend the existing bends to align the frame as shown, so that the arms about 10mm inside the legs with the wheels parallel to the front-back line of the chair.

2. **Front legs wood** - drill a horizontal 4mm diameter hole 25mm deep on the inside of each front leg, 35mm (for armchairs see below*) from the floor.
   Front legs metal – drill the front legs 1/4 inch hole straight through, using the same height (35mm - do not forget to allow for the plastic plugs & rubber ferrules) above the floor as for the wooden chairs.
   *NB – for armchairs check the pedal height is suitable before drilling! See Hints and Tips page 3.
   Rear legs wood & metal - drill rear legs straight through with a ¼ inch hole 27mm above the floor. All holes should be exactly horizontal and left and right holes should be **exactly** in line with each other. NB. If the rear legs are skewed or round that is no problem – see Hints & tips page 3.

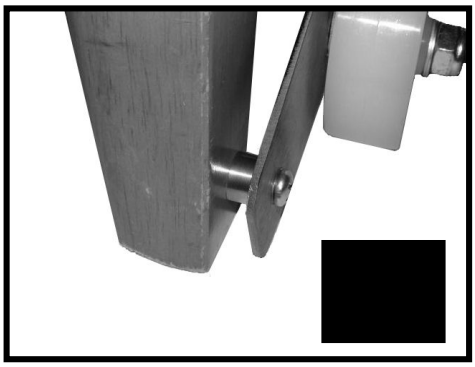


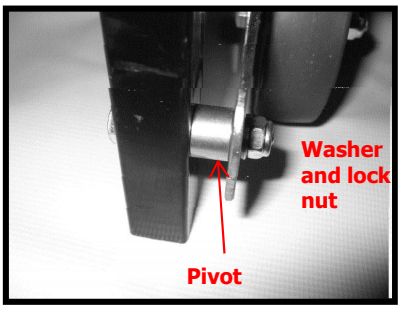


4. **Front leg anti-slip washers - wooden chairs** - these are only really necessary where the chair will be used on a hard floor such as vinyl, laminate or wood. NB. on a deep carpet they may hinder movement. To compensate for any unevenness caused by imperfect alignment of the axle holes adjust the depth of the shallow hole for the rubber washers. **CAREFULLY** drill a vertical hole 19mm diameter approx.' 2mm deep up into the centre of the **front** legs AND a pilot hole for the screw. Insert the washer into the hole and screw into the bottom of the leg. Screw in until the head of the screw is recessed slightly as shown. **Metal legs** (or if the wooden legs are too thin) - use rubber ferrules. Please ask us if these are needed. The washers/ferrules provide vital chair stability if leaned on from behind on hard floors and some carpets.

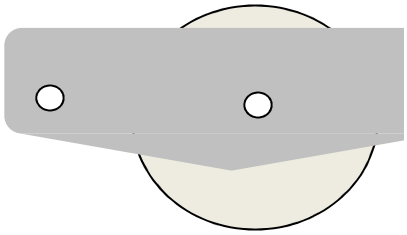


5. **Wooden chairs** - locate the pivot into the front frame hole and drive the screw in with a **number 3** "Pozidrive" bit (use a drill driver). **Metal legs** – secure the V frame using a ¼ inch bolt, washer and lock nut as shown below. Always use the screws and bolts supplied so that the V frame does not slip off the screw/nut. Substitute bolts must be HT (High Tensile).



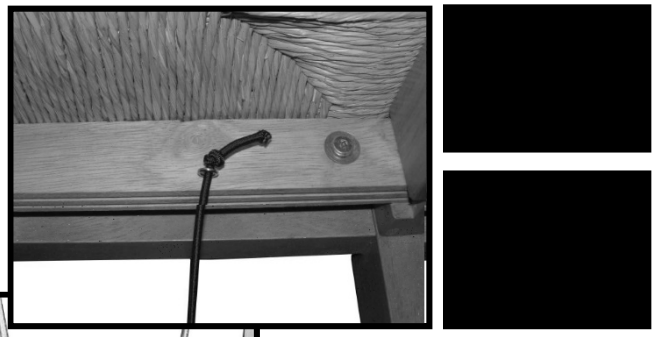


Metal leg chair

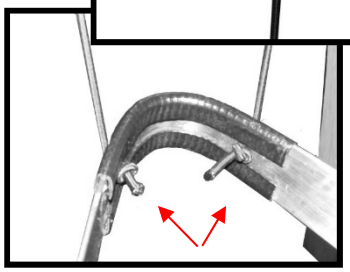


Correct way up

6. **Shock cords** - drill suitable pilot holes (2mm dia) in the underside of the chair seat frame. Screw in the eyes and thread the shock cord into the eyes, tying a double knot to secure (not on the eye, but as shown). Thread the other end of the cord through the hole in the rear of the V frame and secure with a single knot (do not tie together). Adjust knots so that cords are taking even strain with the front wheels just above the floor.



Tie a double knot to secure



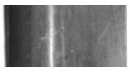
Tie a single knot to secure

Hints and tips

If the chair has a low crossbar - If there is a crossbar lower than 100mm above the floor then place the V frame in position to check that when the unit is fitted that:

a. the front wheels are just above the floor (use a couple of coins under the wheels as a gauge).
b. the front leg "lift" is sufficient before the pedal touches the floor (i.e. about 20mm)

The 35mm pivot height may have to be increased to permit fitting. It **may not be possible** to fit a millie-mova system if the crossbar is below 75mm.



If the bolt for the rear legs seems too short - If the chair leg is too thick for the bolt then you can use a 14mm drill to create a shallow hole for the bolt head to sit in. See the picture here. You may have to use a screwdriver to hold the bolt head from turning, so you can tighten the nut.