UP1 – PT01 Scratch Ultra-Pitch Kit
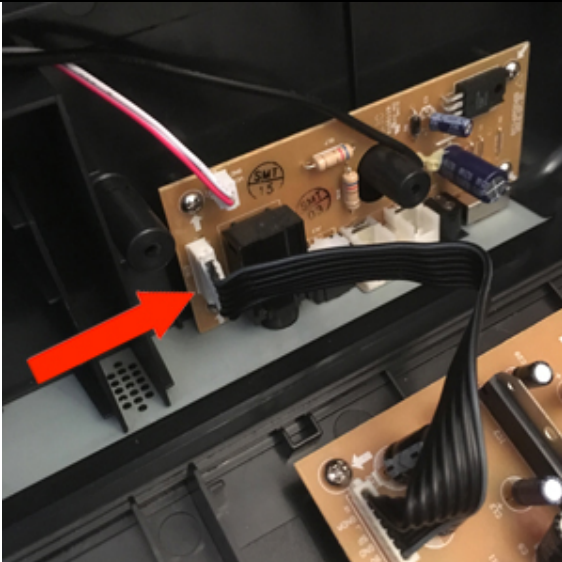## Installation Guide
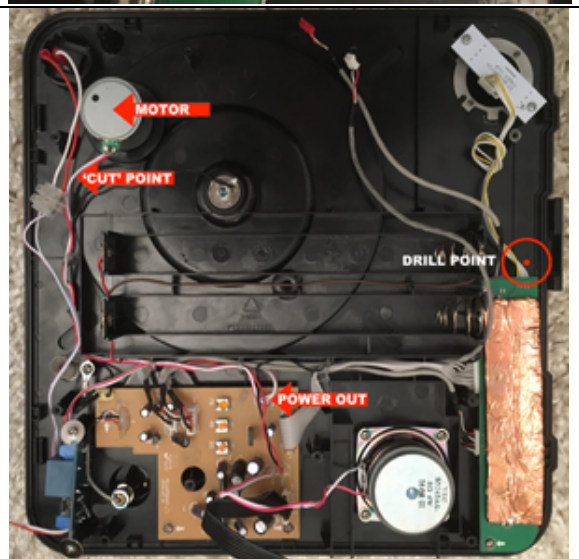
The kit should contain:
x1 Motor Control Board (**MCB**) with connector
x2 ConnexEasi^TTM prepared cables
x4 Sticky Feet

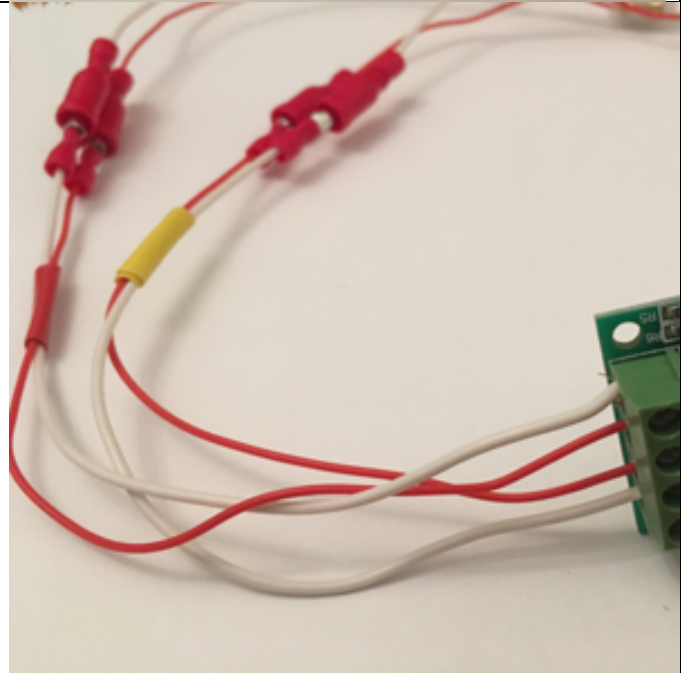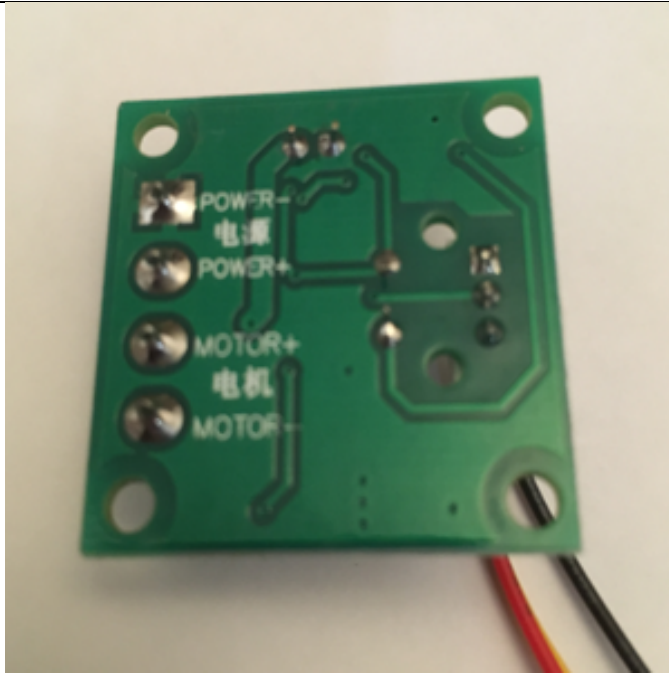| 1	Ensure PT01 is powered off and not connected to the mains. With the top cover closed, turn over the PT01 and remove the 8 screws from the base. Gently lift the base up from one side and locate both the USB Board and Mains In Board. Disconnect the ribbon plug and 2 cables respectively.	
2	Separate the two sections and make note of the area that will be worked on.	

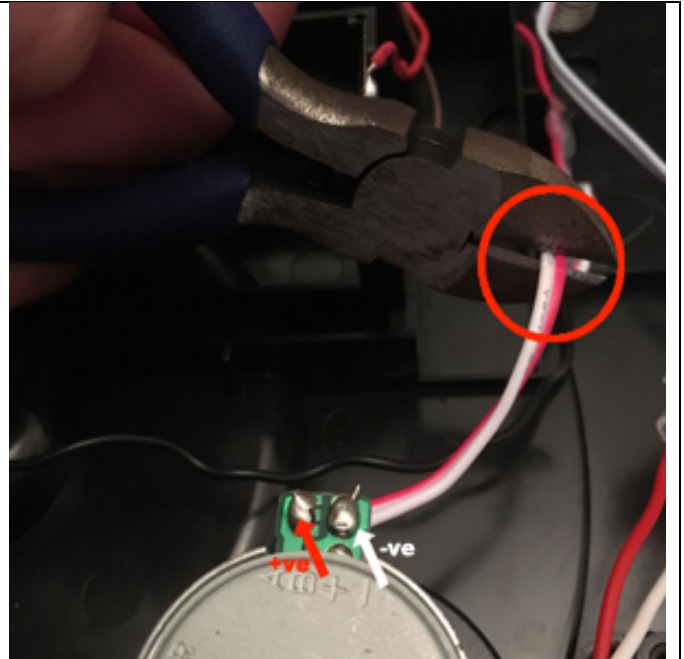| 3	With the **MCB**, connect the open-ended <mark>yellow taped</mark> 'red' +ve cable to the **MCB power** +ve terminal. Then connect the <mark>yellow taped</mark> 'white' -ve cable to the **MCB power** -ve terminal. With the **MCB**, connect the open-ended <mark>red taped</mark> 'red' +ve cable to the **MCB motor** +ve terminal. Then connect the <mark>red taped</mark> 'white' -ve cable to the **MCB motor** -ve terminal.	

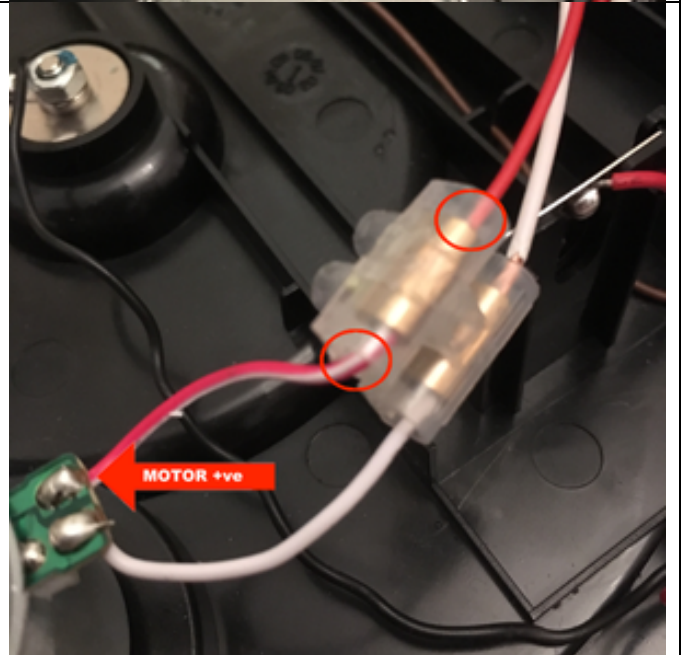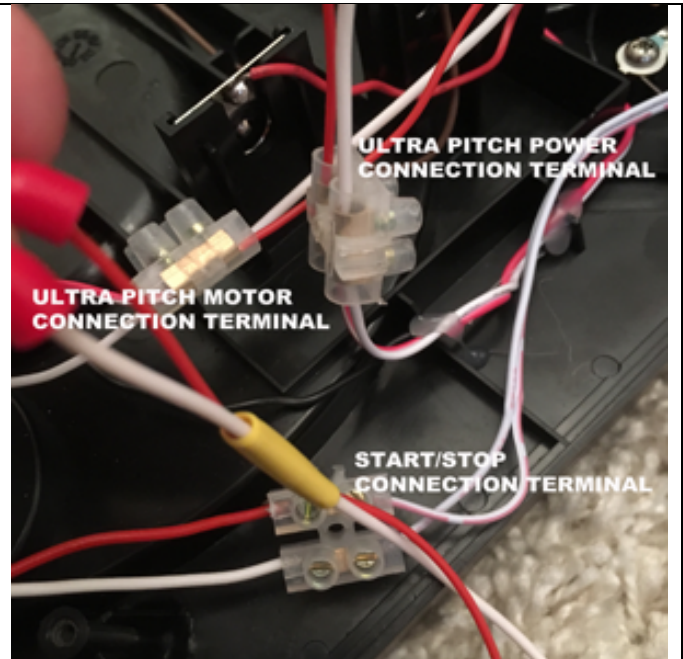| 4	With a pair of snips, cut the motor cable at the Cut Point, about 3 inches away from the soldered +ve and –ve connection points on the motor. This is the Power Out cable.
	Gently split the red and white cables apart and peel back up to an inch, as they are joined together. Do this for both ends of the cable - the end that is connected to the Motor and the end that is connected back to the Power Out.
	Once both ends are split, with a wire stripper, prepare all four of the ends so you can connect them to the connection blocks on the supplied cables.
5	**ConnexEasi^{TTM}** ☺
	First connect the Motor.
	With a small flathead screwdriver, connect the red +ve cable that is attached to the Motor to the red taped 'red' +ve cable, using the junction connection terminal. Then, connect the white -ve cable that is attached to the Motor to the red taped 'white' -ve cable, using the junction connection terminal.
	Ensure that the connections are secure.

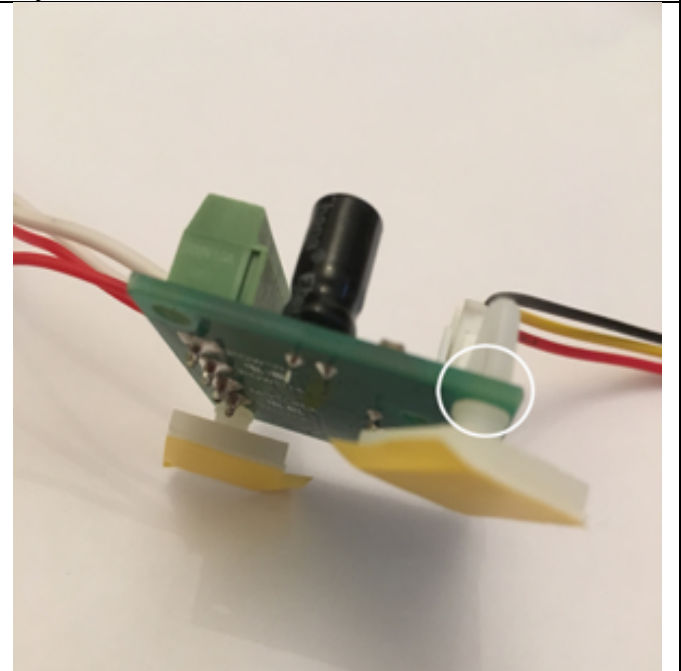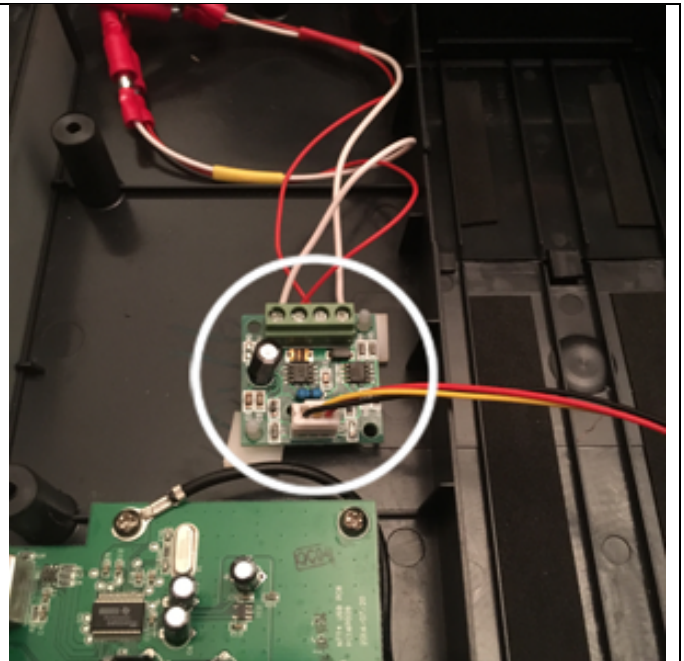|		
	Now connect the Power Out. Connect the red +ve cable, from the Power Out board to the yellow taped 'red' +ve cable, using the junction connection block. Then, connect the white -ve cable that is attached to the Power Out board to the yellow taped 'white' -ve cable, using the junction connection block. Ensure that the connections are secure. Store away and tape down any excess cables, but ensure the connectors and snap plugs are accessible for future ease of opening and disconnecting.	
6	Pull of the knob from the **MCB** dial and remove the nut. Keep the washer on, sitting on the base of the dial. Attach 2 of the 'sticky feet' onto the base of the **MCB**. You can use all four of the 'sticky feet' if required, or you can use these to secure down other boards if they need re-positioned, depending on what other modifications you currently have.	

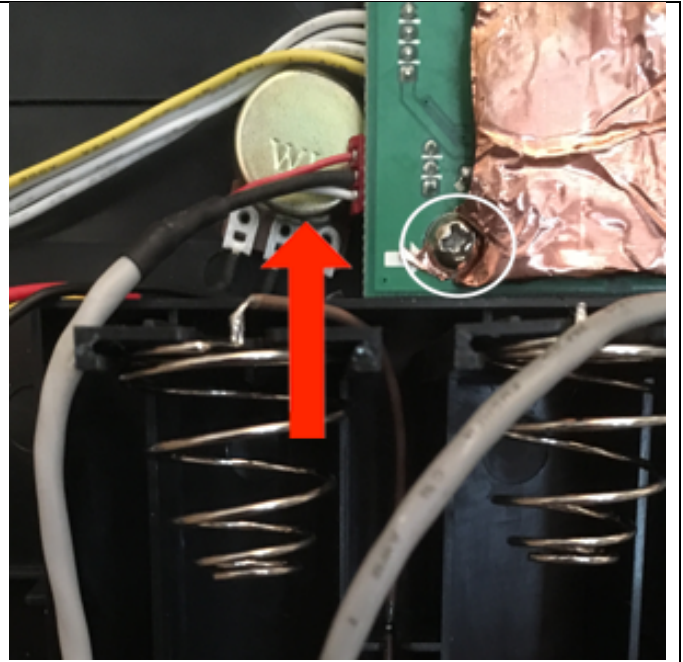| 7	Decide on where you want to install your ultra-pitch knob first from the top of your turntable. Make sure the area you choose to drill the hole for the ultra-pitch dial/knob has enough length of **MCB** <u>connector plug</u> cable to reach the area where you will place the MCB with the 'sticky feet'. Note: Your **MCB** <mark>yellow taped</mark> and <mark>red taped</mark> connection cables should reach all areas within the PT01 Scratch turntable.	
8	For the purpose of this installation guide, we have choosen to drill between the Numark logos. Caution: Please refer to Step 9 before drilling this area. Note: We advise against trying to place the ultra-pitch in the any of the four 'felt' areas, due to the thickness of the plastic – it will not allow you to connect the dial to the nut when completing the installation.	

9	Drilling inbetween the Numark logos has to be precise. In order to prepare for this, make sure the screws are loosened or removed, enabling you to slightly pull away the Control Assembly Board. Make sure the cables are pushed to the sides and drill in from the top slowly with a 7-8mm drill bit, while observing from the bottom side that there are no obstructions. Once the hole is primed, insert the ultra-pitch dial, with washer, from the underneath the turntable top. Once in position, quickly add the nut to hold the knob. Then screw the Control Assembly Board back down.	
10	Ensure the dial rotation of the knob is correct before fastening the nut tightly, so when you place the knob back onto the dial, the 'center' position is center when turning far left and far right. Now, put it back together by repeating Step 1 in reverse.	
	Practice Yo! Mods	

Some users may feel a slight 'lag' on the platter when pulling back and releasing the vinyl. It may seem like it is not a 'snap start' on vinyl release prior to the auto-pitch being installed.

The best way to use the ultra-pitch function is to play all vinyl on 45rpm and adjust the ultra-pitch accordingly.

Modifications to your turntable are at your <u>own risk</u> and should be installed with your own discrepancy. If you have installed the ultra-pitch mod and feel like it doesn't work for you, then you can easily dis-connect it. This can be done by re-connecting the Cut Point cables together again, using a terminal block that has been provided.

If you don't have a <u>Start/Stop switch installed with a latching relay</u>, then you can completely bypass the PT01 rpm speeds and drive the platter with 'direct' power.

When doing this, as soon as you switch on the 'power', your platter will start to rotate. You will no longer be able to select 33,45 or 78rpm.

To enable this, simply join the supplied 'black' earth cable to the **MCB power** -ve terminal.

Then connect the other end of the 'black' earth cable to either the lug earth connection on the USB board or even the earth connection on the platter base.