

MAP REPLACEMENT INSTRUCTIONS



These instructions detail the map changing process for Geochron owners. It should take approximately 2 hours and requires the tools mentioned below.

Feedback is greatly appreciated – if there are tips that could be added to make the project easier for future customers, please let us know.

Tools required:

1/4" and 5/16" hex nut drivers (or use socket set)	
Long handled regular screwdriver	
Philips head screwdriver (for older models)	

1) Set the Geochron to the fall or spring equinox (3/21 or 9/23). Shadows should be straight up and down as shown.



Unplug the unit and remove from the wall. Lay Geochron face down on a clean surface with a towel, blanket, soft cloth, or cardboard underneath.

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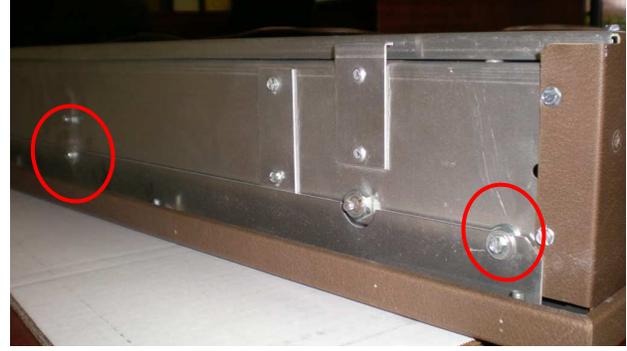


2) Remove the back panel: Over the years, the six screws used have changed, so it may require a 1/4" hex nut or screwdriver. Once removed, clean both sides of the panel with a window cleaner or wet cloth and set aside.



3) Removing the front panel: There are 4 nuts to be removed from the bottom and 3 screws to be removed from the top.

Be sure to take note of the sequence of washers along the top! It can be different with each unit because of spacing the panel from the map.

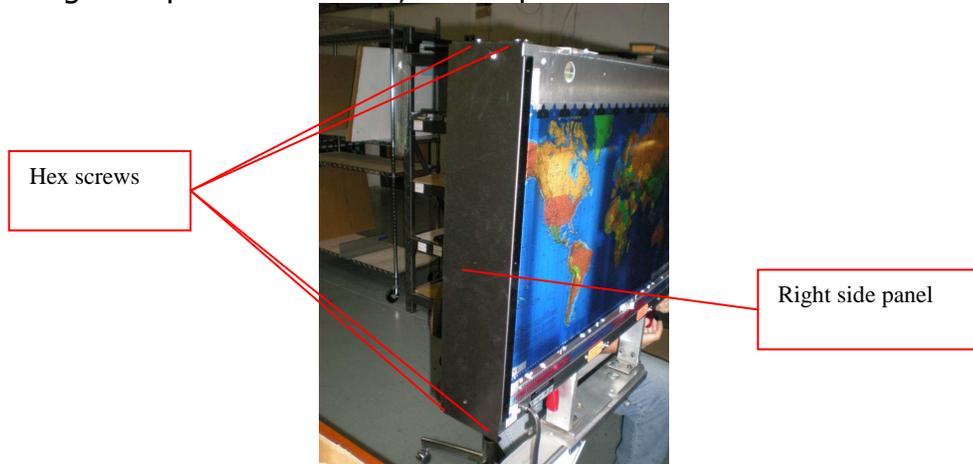
Top (3 total)	Bottom (4 total)
	
<p>Use the 1/4" nut driver to remove the 3 screws that go directly into the body of the Geochron (leave the screws holding the bracket to the front panel)</p>	<p>Remove the 4 nuts and washers that are attached to the panel using the 5/16" nut driver. Washers will fall but can be retrieved once the body is lifted away.</p>

Once all of the nuts and screws have been removed, lift the Geochron body away from the front panel.

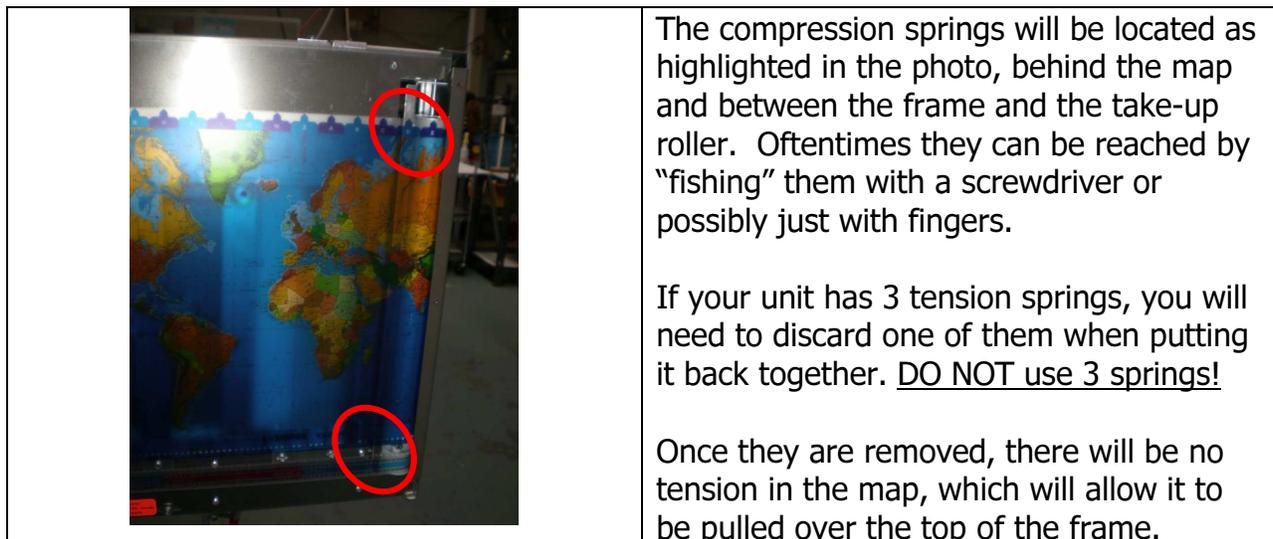
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4) Remove the left and right side panels using the 1/4" hex nut driver. There are 4 screws holding each panel to the unit, 2 on top and 2 on bottom.



5) Prop the Geochron upright with books, chairs, or have someone help. In order to release the tension on the map, the compression springs will need to be removed.

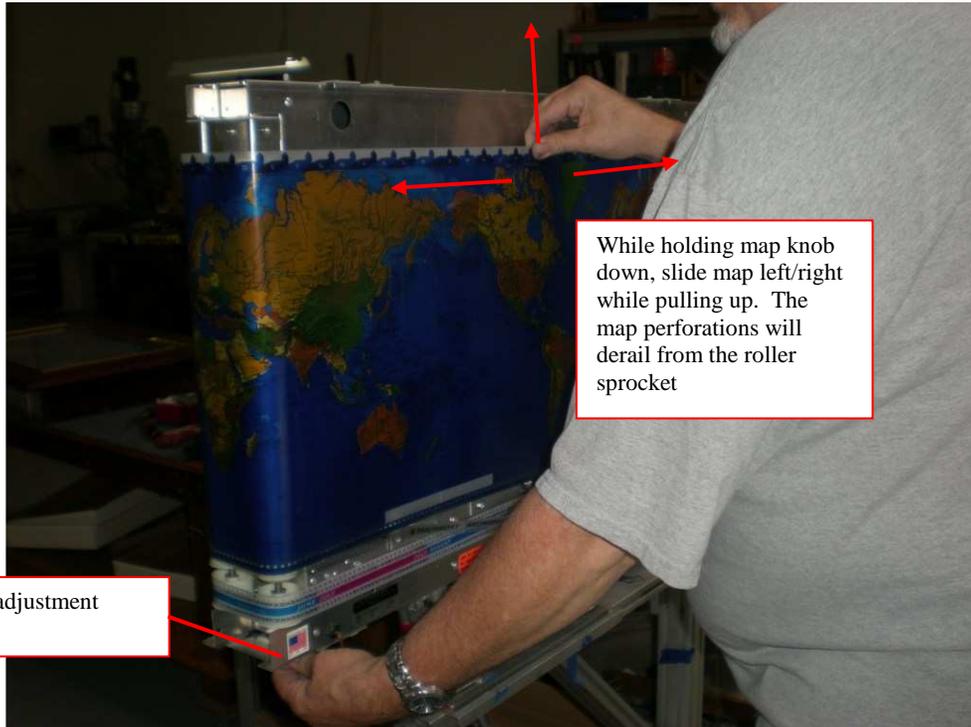


6) Remove the old map:

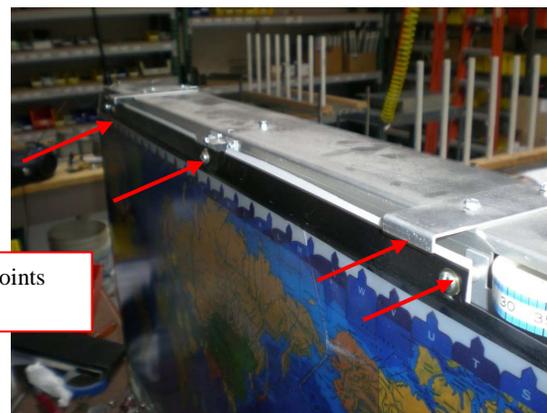
- The easiest way to remove the map is to simply cut it off with scissors. However, if the map will be put back on or if there is a desire to salvage it, then the map removal process is more involved. If you are cutting the map off, do so then proceed to step 7.

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- From the back, pull and hold the map adjustment knob down. This disengages the motor and allows the map to spin freely. With your right hand, grab the top of the map and shift it side to side while pulling up. This will eventually derail the map perforations from the roller sprockets



- Once the map is off the sprocket teeth, jostle the map side to side while pulling up gently, making sure it doesn't catch any brackets or screws on the way up

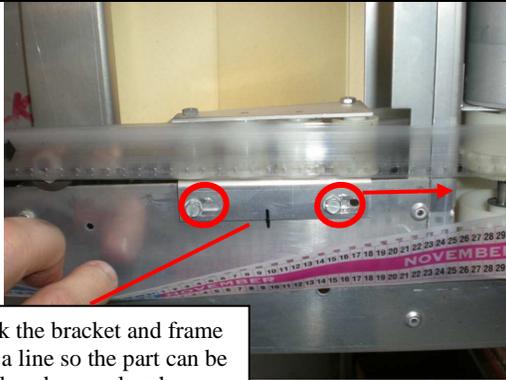


Common snag points

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7) To install the Map:



Mark the bracket and frame with a line so the part can be placed properly when retightened

Mark both the frame and day of week (DOW) roller with a marker (located in the bottom right corner when looking from the rear). This mark is important when putting the unit back together.

Loosen the two screws 1-2 turns, push the DOW roller to the right, then retighten. This removes the slack in the day of week band and is necessary to keep it out of the way.



Lift map over the top of the body, gently get it started over the four corners.

Slowly slide the map down the body, checking the bottom map edge to ensure it isn't snagging on any of the internal components and screws.

Slide the map down until the bottom is one to two inches away from the clear day of week band



Rotate the DOW band until "Thursday Wednesday" is split evenly on the analemna in the middle of the unit.

Center the clear day of week window on the map as best as possible.

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Gently pull the map over the day of week band, aligning the perforations as best as possible. Slide the map perforations over the roller sprocket

8) Insert the take-up springs:



Insert the top spring first, just above the map. Ensure it is in far enough to allow for full compression of the roller plate.



Ensure map is NOT riding in the sprocket of the rear roller by holding the map away with your finger.

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Loosen the 2 screws of the DOW roller 2 turns, push it to the left



Insert the bottom take-up spring between the calendar band and map – the map will automatically snap onto the teeth

- Move the DOW roller until it aligns with the mark you scribed in step 7. Once aligned, retighten the 2 hex screws.

9) Checking your work:

- Disengage the map knob (in the bottom right of the unit) by pulling and holding down. Grab the top of the map and rotate it to the right through four days.
 - Watch a roller sprocket to see if there is any “jumping”, meaning a perforation is not smoothly transitioning in and out of the sprocket.
 - This ensures the map won’t derail itself after running for a while. It also checks to make sure your day of week band is still on the rollers and hasn’t slipped.

10) Put the unit back together:

- Basically, you want to go in the opposite direction from disassembly.
 - Side panels – the four hex screws – see step 4
 - Front panel – hex screws and nuts – see step 3. Remember to insert washers and brackets in the same order as they were removed
 - Back panel – the 6 screws – see step 2