



Shapel Tide Clocks

How to set the time/tide indicator Moon Version)

Setting Instructions

See separate instructions overleaf for setting Moon Dial

To achieve the maximum accuracy from your Tide-Time indicator it should be set at the 'High Tide' position on the day of a full moon.

The tide hand is already set in this position so all you need to do is to insert an 'AA' battery at this time to start it going.

By setting the tide function in this way it will display the minimum error throughout the month. This can vary from zero to around 30 minutes earlier or later. However, on the following full moon these discrepancies will cancel themselves out and the time will again be accurate.

How Does it Work?

The major cause of the tide cycle is the moon. The tide clock is based on the 'lunar Day' (the time it takes for the moon to reappear in the same place in the sky). This time is 24 hours and 50 minutes.

Since there are two high and low tides each day the clock hand is set to rotate once every 12 hours and 25 minutes. Thus the tide clock always stays in step with the moon.

There are however many other factors which can have a slight bearing on the tide ie: the sun, wind etc.

If for any reason the hand needs to be adjusted there is an adjusting ring on the back of the movement. Once again any adjustments should be made on the full moon.

Time

Your Tide Indicator also features a conventional clock which has its own power source and works independently. This runs on an 'AA' battery. The time is set by the adjustment wheel on the back of the clock.

NOTE: Rotate Hour Hand Clockwise Only when setting Time.

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Artisans on the Hill

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Your Shapel timepiece is a unique instrument combining three functions, a Tide indicator, a Moon Phase indicator and a clock.

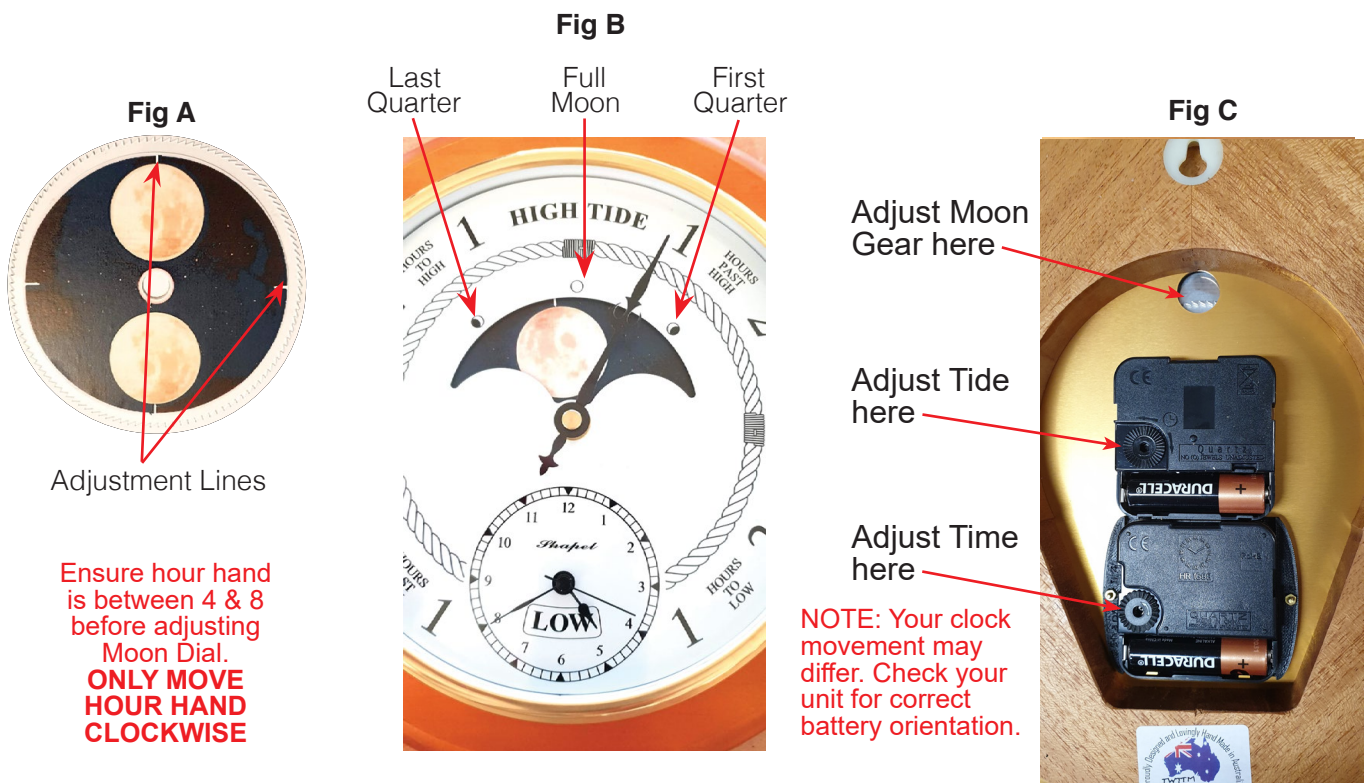
The Tide Indicator works independently of the Moon and Time and is explained overleaf. The Moon function is operated by the lower mechanism - ie the Clock.

Every 12 hours, the moon dial advances anti-clockwise approximately 3mm. To set the time, use the Clock Adjusting Wheel (Fig C)

Setting the Moon Position

WARNING: Before attempting to make any adjustments to the Moon position, ensure the Hour hand on the clock is between 4 and 8. Failure to do so will void your warranty.

1. Determine the current moon position from a tide chart, website or other reliable source.
2. Note the white adjusting lines on the Moon gear at Full and New Moon positions (Fig A). Note also the three indicators on the dial showing First Quarter, Full Moon and Last Quarter (Fig B). These guides are to assist in finding the correct moon setting.
3. Locate the Moon Gear teeth through the adjusting port at the top of the backing plate (Fig C). Use a finger or suitable stylus (toothpick, skewer, etc) to gently move the teeth to desired position.
The gear should turn freely. Any undue resistance could mean the driving spring is still engaged and you should ensure the hour hand is between 4 and 8!
4. Once the moon is set, return the clock to the correct time with an "AA" battery correctly inserted.



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