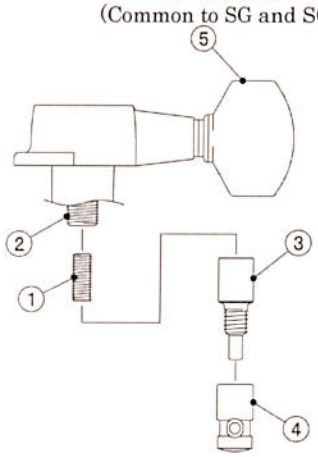
GOTOH HAPM (Height-Adjustable Post + Magnum Lock)
Instruction Manual
(Common to SG and SG510 Series)



Component parts
(1) Locking screw
(2) Fixed shaft
(3) Adjustable post
(4) Locking cap
(5) Button

1. For 6-in-line configurations the height range is different for strings 1 and 2 than for strings 3 to 6. Locking caps for strings 1 to 3 have narrow (1.2mm diameter) holes and strings 4 to 6 have wider (1.8mm diameter) holes.

The machine heads to be used for strings 1 and 2 can be identified by stickers on the back of the body. The machine head for string 3 can be identified by a narrow (1.2mm diameter) string hole and no sticker on the back of the body. The machine heads for strings 4 to 6 are identical.

2. Locking and unlocking the height-adjustable post

To lock or unlock the adjustable post (3) insert the hex wrench into the hole in the body cap and turn the locking screw (1). It is important to remember that the turn direction for locking and unlocking is different for left and right gears. (See Figure A)

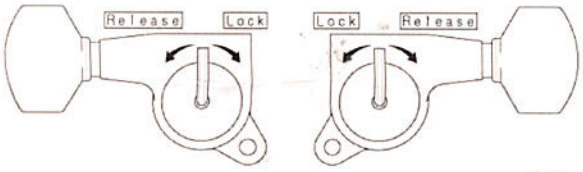


Figure A

3. Post height adjustment

As described in the previous section, you must first loosen the locking screw (1) to be able to set the height of the adjustable post (3).

In order to lower the adjustable post (3) the locking screw (1) must first be lowered sufficiently to not impede movement.
Once the lock is released the adjustable post (3) can be rotated by hand to raise or lower its height.
The adjustment direction depends on which side - left or right - the gears turn. (See Figure B)

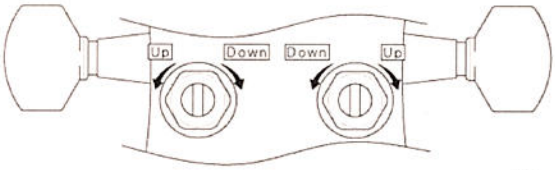


Figure B

After setting the post length to the desired height as described above, the adjustable post (3) can be securely locked and the process finished.

** The travel amount for each string post is 4.5 - 5 mm. Please set it only within that range. In addition, there is no stopper. Please be careful as the adjustable post (3) might fall off the fixed shaft (2) if loosened too much. If only the locking cap (4) turns when trying to adjust the height, use the locking screw (1) to lock the adjustable post (3) and then lightly tighten the locking cap (4) against the adjustable post (3) using a coin or similar. Release the lock and try again. The rotation direction of the locking cap (4) is the same as the adjustable post (3).

CAUTION: When setting the adjustable post (3) to an extended height, make sure there are at least 2 turns of the screw threading between the fixed shaft (2) and the adjustable post (3). If the contact between them is any less there is the possibility of breakage or disconnect due to string tension.

If the adjustable post (3) is lowered to the lowest limit and the string is pulled tight without having tightened the locking screw, the fixed shaft (2) and the adjustable post (3) will be locked by the tension of the string and it will be impossible to readjust manually. Please make sure that the locking screw (1) is locked before winding the string tight.

4. How to lock and tune strings

** Magnum Lock is an auto-locking system that uses string tension. If the locking cap (4) cannot be locked, even if forcibly turned with a coin or similar.

1) Loosen the locking cap (4) until there is enough space for the string. If it is difficult to loosen by hand, use a coin or similar. It is important to remember that the turn direction for locking and unlocking is different for left and right gears. (See Figure C)

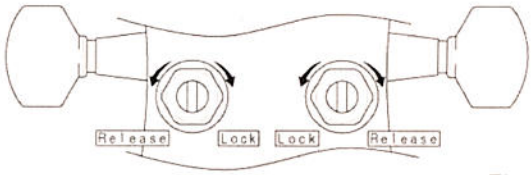


Figure C

2) Thread the string through the locking cap (4), pull it tight, and turn the button (5) in the same direction you would wind it to tighten the string. Although locking is possible even when the string is not pulled tight, it will require more turns and the primary function of the locking post is not being utilized. This process is made simpler with a winder.

When the locking cap (4) begins to turn after the string is locked, let go of the string with your hand. Stretch the strings before tuning to lock reliably. After that, tune as usual.

5. Changing strings

■ String change when the string has broken

Forcibly release the locking cap (4) using a coin or similar. It is important to remember that the turn direction for locking and unlocking is different for left and right gears. (See Figure C)

■ String change with string tension

Turn button (5) in the direction of loosening the string to unlock it.

※There is a video manual on our website. If you have any questions, please refer to that as well.

What's? – H.A.P-M

Why? – H.A.P-M

How? – H.A.P-M

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