

Section 3.5

Temple (Including Full-width Temple)

3.5.1	Temple with Lower Cover	3.5-2
	[1] Front-to-rear Positioning.....	3.5-2
	[2] Right-to-left Positioning	3.5-3
	[3] Fitting the Temple Cover.....	3.5-4
	[4] Positioning the Fell Plate	3.5-4
	[5] Types of Temples.....	3.5-5
3.5.2	Full-width Temple.....	3.5-6
	[1] Positioning the Bar Temple Body.....	3.5-6
	[2] Preparation for Weaving	3.5-7

3. CLOTH TAKE-UP MOTION

3.5 Temple (Including Full-width Temple)

The temple prevents the woven fabric from shrinking in width and ensures stable cloth fell, by spreading the fabric in the direction of its width to an extent which does not influence the fabric quality.

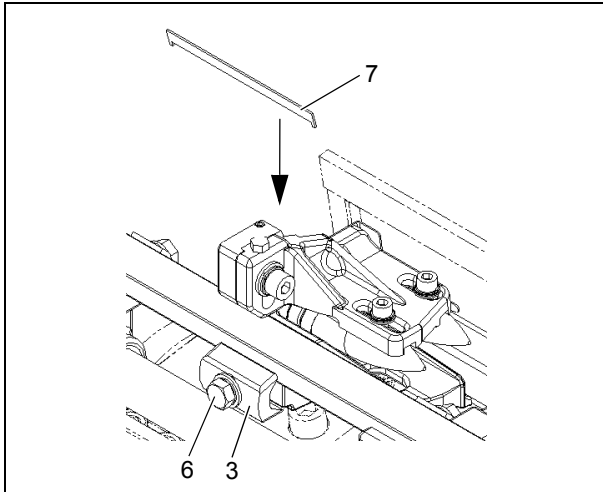
3.5.1 Temple with Lower Cover

[1] Front-to-rear Positioning

To reduce the clearance between the temple and reed:

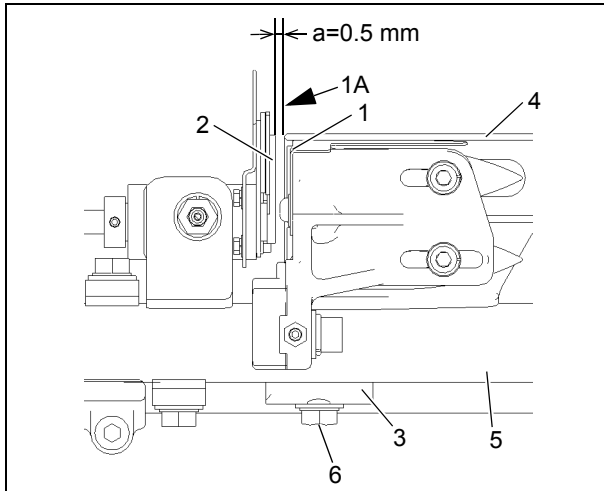
- (1) Set the crank angle at 0°.
- (2) Press the emergency stop push-button switch until it is locked in position.
- (3) Loosen bolt **6** for clamper **3**, and insert shims **7** (W1416-45030).
- (4) Tighten bolt **6** for clamper **3**.
- (5) Release the emergency stop push-button switch.

NOTE: Check for a clearance between the reed and temple, and run the machine to check for no contact between them.



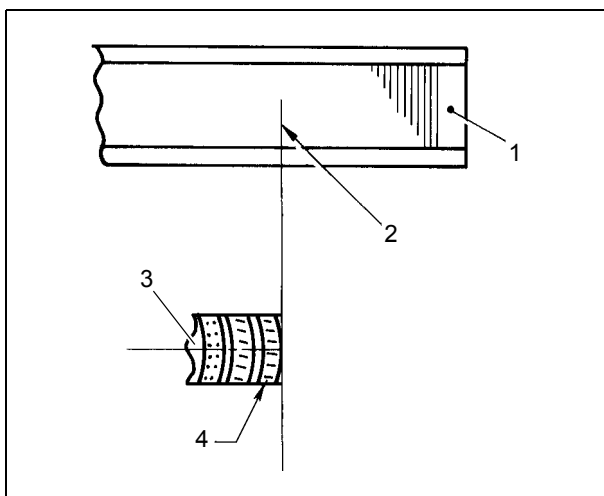
[2] Right-to-left Positioning

[2.1] At the Left-hand Side of the Machine



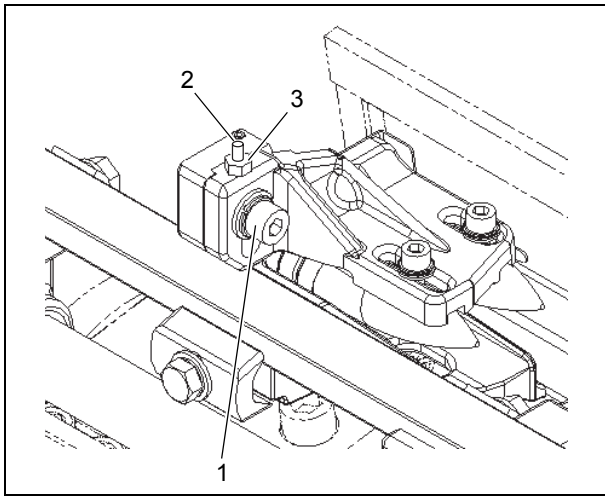
- (1) Loosen bolts **6** holding clampers **3**.
- (2) Move temple case **4** so that clearance "**a**" between left end **1A** of temple ring **1** and upper cutter blade **2** becomes 0.5 mm.
- (3) Mount temple case **4** onto temple bar **5** with clampers **3**.

[2.2] At the Right-hand Side of the Machine



- (1) Pull warps drawn through reed towards the operator, at right angles to reed **1**.
- (2) Adjust temple **3** so that the right end of first ring **4** on temple **3** is aligned with rightmost warp **2**.
- (3) After weaving start-up, make sure that the right end of the fabric is supported by the whole surface of the first ring **4**. If not supported by the whole surface, readjust temple **3**.

3. CLOTH TAKE-UP MOTION



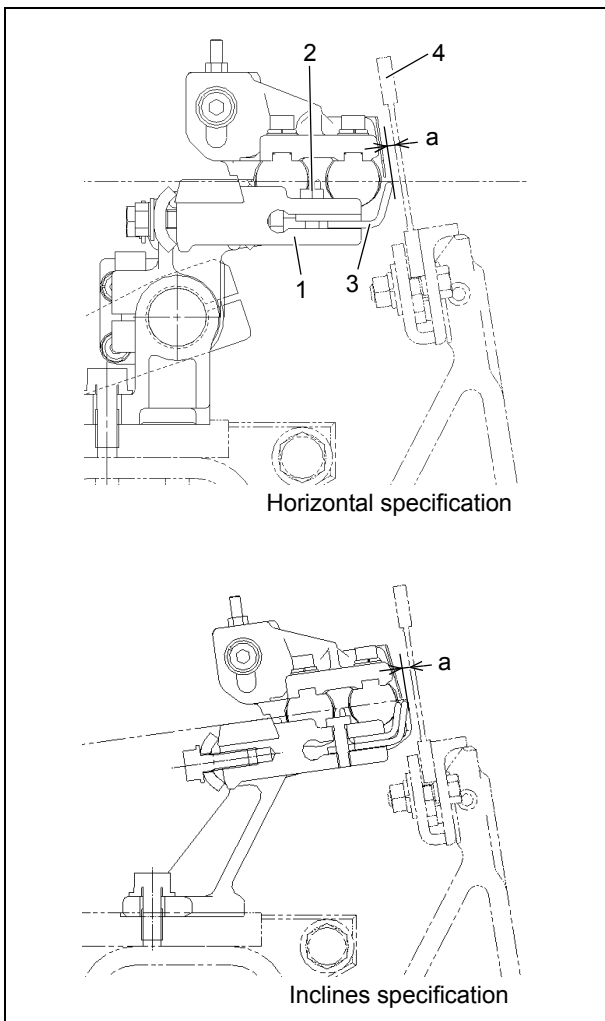
[3] Fitting the Temple Cover

- (1) Loosen bolt 1 and adjust the temple height by turning jock bolt 2.
- (2) Tighten bolt 1 and lock nut 3.



⚠ CAUTION

Never carry out the above job while the machine is in operation. There is the possibility of crushing hands between the temple cover 1 and the reed.



[4] Positioning the Fell Plate

- (1) Set the crank angle at 0°.
- (2) Align the reed mark cam location hole and cam follower. (Horizontal cloth fell specification only)
- (3) Lock the emergency push-button switch.
- (4) Loosen bolts 2 for the fell plate bracket 1.
- (5) Change clearance "a" between fell plate 3 and reed 4. The standard dimension is 4 mm.

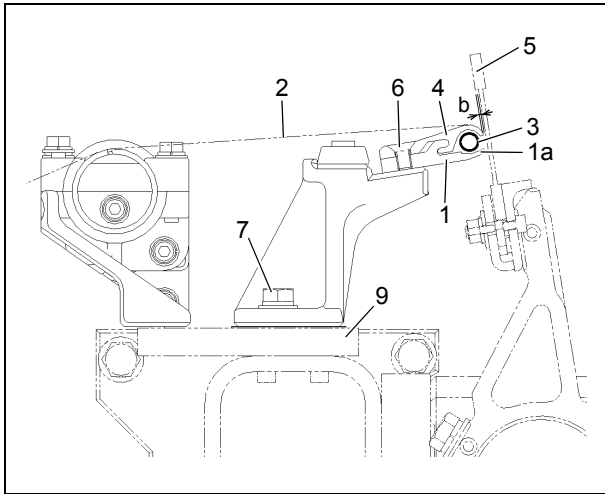
NOTE: Check for a clearance between the reed and fell plate, and run the machine to check for no contact between them.

[5] Types of Temples

The table below lists the standard temples to be used for each type of fabrics.

Temple specification	Ring inclination	Fabric
0600-2-2-06	6°	Fabric with little weaving like ester taffeta
1100-2-2-10	11°	Other fabrics
1600-2-2-10	16°	Fabric with large weaving like nylon taffeta
Bar temple	—	Air bag

3. CLOTH TAKE-UP MOTION



3.5.2 Full-width Temple

The full-width temple is used for high-density fabrics with high shrinkage in length and low shrinkage in width.

- 1 : Bar temple body (with edge covers)
- 2 : Cloth
- 3 : Spindle
- 4 : Bar temple cover

With the cloth-fell area being supported by edge 1a of bar temple body 1, cloth 2 threads around spindle 3. As spindle 3 rotates, cloth 2 is spread in the direction of its width.

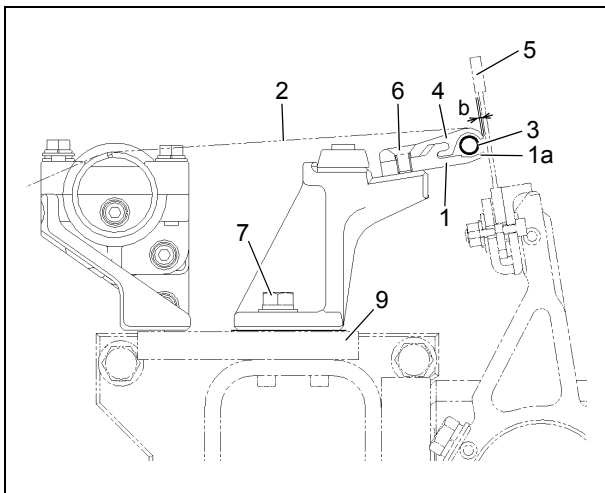
Cloth 2 advances out of bar temple cover 4 towards the take-up motion.

[1] Positioning the Bar Temple Body

[1.1] Front-to-rear Positioning

Adjust the position of bar temple body 1 relative to reed 5.

- (1) Make sure that the crank angle is set at 0°.
- (2) Adjust the position using bolt 6 to set the front-to-rear dimension “b” between the tip end of bar temple body 1 and reed 5 at 0.5 to 1.0 mm (using a thickness gauge).



[1.2] Right-to-left Positioning

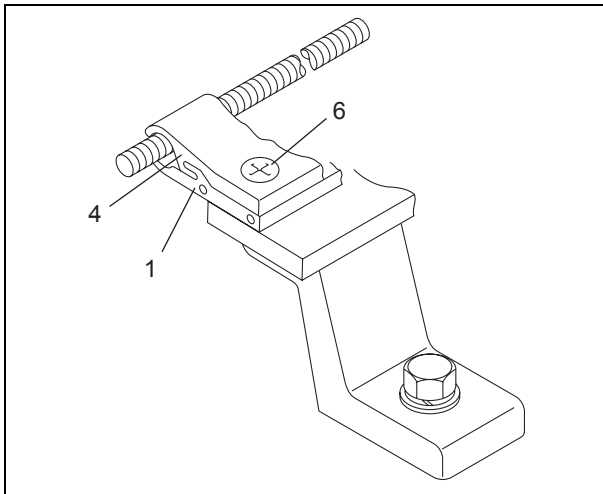
- (1) Adjust bar temple body 1 towards the right or left so that the distance between the left-edge cover and the upper blade of the LH cutter comes to 0.5 mm.
- (2) Firmly tighten bolt 7 to secure bar temple body 1 to breast beam 9.

[2] Preparation for Weaving

Prepare to start weaving, with the steps given below:

- (1) Remove bolt 6, then take off bar temple bracket 4 from bar temple body 1.

NOTE: Place the removed bar temple cover on a cloth or the like to prevent it from becoming scratched.



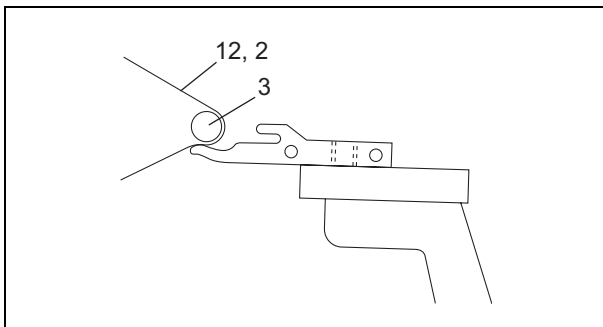
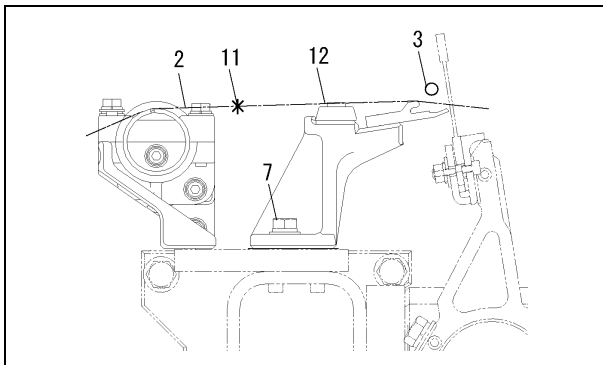
- (2) Advance warps 12 until knots 11 between warps 12 and woven cloth 2 come more to the front side than bolt 7.

REFERENCE: At this stage, do not wind the woven cloth around the surface roller.

- (3) As shown at left, put spindle 3 into the round section of bar temple body 1 from above warps 12 so that the right and left screws are arranged at the R.H. and L.H. side, respectively.

- (4) As shown at left, route warps 12 and woven cloth 2 around spindle 3.

REFERENCE: Gently treat warps and woven cloth to prevent warps from becoming disarranged.



- (5) Reinstall bar temple cover 4 to bar temple body 1 with bolt 6.

- (6) Route the woven cloth between the surface roller and the press roller.

