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# TM325 GRIPPER FOOT CAM ANGLE ADJUSTMENT

*Tools required: Allen Key & Retaining Ring Pliers*

The most common TM325 tool repair is the adjustment of the gripper foot screw (part# 56). The gripper foot screw is a simple set screw and sets the cam angle of the gripper foot to prevent strap slippage while tensioning. Over time, from use, this set screw gets hammered on and therefore shortens. The gripper foot screw can be brought back to the right height by backing it out (turn counter clockwise) approximately 1/4 turn (The appropriate height will set the gripper foot more horizontal to the base of the frame. If it is off too much, the gripper foot will either bite down too much or not enough).

To accomplish this, remove the retaining ring (part# 52) and slide the gripper foot assembly off the eccentric shaft (part# 43). Remove gripper foot shaft (part# 32) and separate gripper body (part# 47) from gripper foot (part# 48). The gripper foot screw (part# 56) is in the gripper body (part# 47). Use an allen key to back it out approximately 1/4 turn. This is also a good time to clean the pyramids on the underside of the gripper foot. Use a wire brush to remove any build up or debris.

To put everything back together, insert gripper spring (part# 31) into tiny hole on gripper body (part# 47) before sliding assembly back onto the eccentric shaft (part# 43). Keep a small gap between assembly and frame and then use the allen key to push the end of the spring into its slot on the frame. Keep the gap small so that spring does not come out of gripper body and use the allen key to work the coils of the spring into its housing in the frame. Once this is complete, slide the gripper foot assembly the rest of the way onto the eccentric shaft and then place retaining ring (part #52) back onto end of eccentric shaft.

This should set the height of the gripper foot more horizontal to the base of the frame. If strap continues to slip under gripper foot, repeat this procedure. If strap continues to slip after second attempt, send tool in for repair. Conversely, if the gripper foot seems to bite down too much on the strap, then gripper foot screw has been set too high.

Tool schematic and instructional video can be found on the downloads page at www.REDBACK.com.