



Rev. 02-13-2020

Turret Ramp and Deflector Instructions Part No # PPP-RAD

Images shown with turret parts removed for clarity.

Please read entire instructions before beginning.

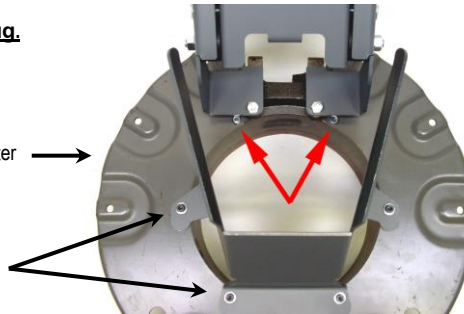


Pinsetter at 270 degrees. remove electrical box power plug.

Remove OEM 5-chute saving 2 of the original mounting screws for reuse.

Installation

Loosely install the 2 saved screws in turret wire clamp plate mounting (center of image arrows) closest to pin release lever mount bracket. These 2 positions are not used in PPP-RAD mounting.



Deflector

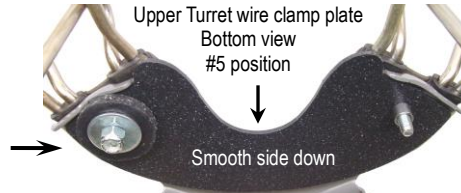
Position *Deflector* onto remaining 4 turret wire clamp plate holes then fully secure with included socket head cap screws (Allen bolts) washer and lock washers. Fully secure the 2 loosely seated clamp plate screws next to pin release lever mount bracket.



Pin-Head Guard

Remove top mounting screw and nut from #8 and #9 turret wire clamps. Insert 2 supplied 1/4-20X1-1/4" bolt and lock washer (lock washer under bolt head only) thru top turret wire clamps and loosely secure into both *threaded projection nuts* as shown image right

Press *Pin-Head Guard* (smooth side down) onto *threaded projection nuts*. Now firmly secure both upper clamp bolts.

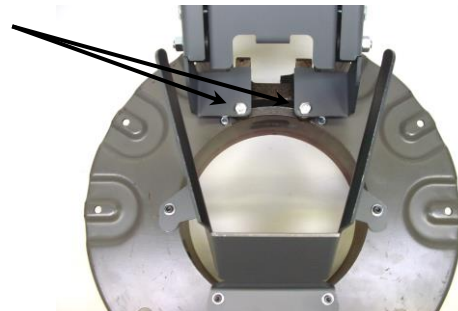


Top View
Pin Head Guard at #5 position

Place both included rubber spacers onto *projection nut barrels* with fender washers against rubber spacers. Hold previously secured turret clamp bolts with wrench while securing Nylock jam nuts against fender washers. Insure turret wire clamp securing by re-tightening clamp bolt and Nylock jam nut when necessary.

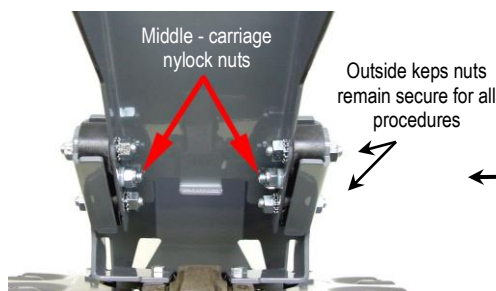
Ramp Assembly

Remove the 2 upper pin release lever bracket mounting screws. Position *Ramp Assembly* on pin release lever mounting bracket and moderately secure with included 1/4-20x1-1/4" screw and lock washer. Install probe and firmly secure. Install probe spring.



Probe Height Adjustment

Loosen freely, 4 inside shock mount keps nuts allowing *Ramp* to pivot on the 2 carriage bolts. Carefully tighten (or loosen) the 2 Nylock nuts evenly by 1/8th turns until *Ramp* confidently holds any position when released while allowing upward and downward positioning.



Shock Mount Firmness

Individual preferences may vary - exact shock mount firmness not important. Additionally tighten the 2 carriage bolts Nylock nuts evenly for increased shock mount firmness by 1/8th turns. Hand test *Ramp* deflection after each 1/8th turn for acceptability. Avoid extreme shock mount rubber distortion or bulging. Exceeding a total of 1/2 turn is not recommended.

Final Step

The 2 *Ramp* mounting brackets have slightly elongated holes allowing for shock mount firmness and manufacturing variations.

Loosen both moderately secured pin release lever mounting bracket screws (image directly above) to allow shock mount brackets to settle in slotted holes, then secure both firmly. This step can be ignored during future minor shock mount firmness adjustments.

Restore Pinsetter Power

Test turret *Ramp* and *Deflector* performance. **PLEASE NOTE;** It is normal to detect slight *Ramp* movement during probe-blocked pin release operations.

Index turret until *Ramp* aligns with cross conveyor. Depress turret release lever and observe probe engagement with blocking fingers. Pivot *Ramp* up or down until desired probe contact with blocking fingers is achieved.

Taking care not to disturb *Ramp* position, index turret for easy access to *Ramp* underbody. Moderately secure 4 inside *Ramp* keps nuts. Index turret for final check of probe engagement to blocking fingers. Again, index turret for access to *Ramp* underbody and firmly secure the 4 inside shock mount keps nuts.