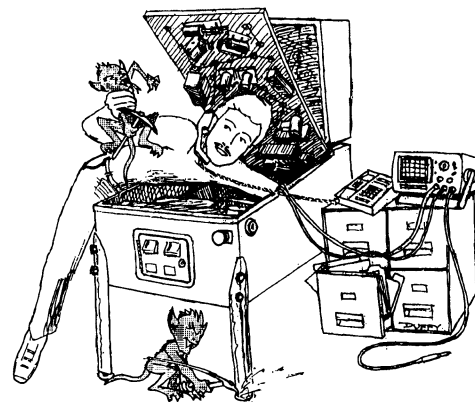


Data East Pinball, Inc.
1990 Janice Avenue
Melrose Park, IL 60160
© 1-800-KICKERS or © 708-345-7700
Fax: 708-345-7889



Technical Support

Joe Blackwell
Director, Technical Support

Eric Winston
Technical Support Engineer

Ted Kilpin
Technical Support Engineer

Jay Affer
Tech. Doc. Administrator

TO: Parts & Service Managers

DATE: November 1, 1994

RE: **GUNS N' ROSES** Shooter Lane Ramp Mounting Modification

SYMPTOM — Multiple balls in the shooter lane. All 50 volt coils are inoperative including the flippers. Auto Launch Coil, Coil Sleeve and Plunger Assy. may be damaged due to overheating.

PROBLEM — The pitch of ramp is too great. In most cases, as a ball is served into the shooter lane, the Auto Launch fails to shoot the ball up the ramp. The ball returns, and the Auto Launch attempts to re-shoot the ball. If in Multi-Ball mode, balls are served one after the other, expecting the shooter lane to be free of the previous ball. The Auto Launch cannot shoot easily 2 or more balls up this steep ramp. This causes the Auto Launch Coil to repeatedly fire, as the balls roll back onto the shooter lane switch which virtually causes the coil to burnout. Another contributing factor will be the pitch of the game — if leg levelers are screwed out, the pitch to the playfield (and the ramp) is increased.

SOLUTION — A modification to the *Shooter Lane Ramp* should be made. Lower the rear of the *Shooter Lane Ramp* at the back panel and move the front of the *Shooter Lane Ramp* entrance as far forward in the **Shooter Lane Routed Slots** as possible. Attached is a pictorial layout of the modification.

STEP 1 Remove all fastening hardware from the *Shooter Lane Ramp*. Remove ramp. Set aside.

STEP 2 Drill new hole. Ref Fig 1.

STEP 3 Remount the ramp at the new hole in the backpanel and refasten ramp at the remaining 3 original connections. It should now be approx. 1/2" lower. (Ramp should rest on the Mini-Mars lens also attached to the back panel). Ref. Fig. 1.

STEP 4 Position the front of *Shooter Lane Ramp* as far forward in the Shooter Lane Routed Slots as possible. Secure nuts. Ref. Fig. 2.

As always, input from our Distributors & Operators is encouraged. This tip is courtesy of Juergen Muehlenhoff, Bally Wulff, Hannover, Germany. Thank you.

If you have any questions or experience any other problems, please call our Technical Support Department.

GUNS N' ROSES Shooter Lane Ramp Mounting Modification

