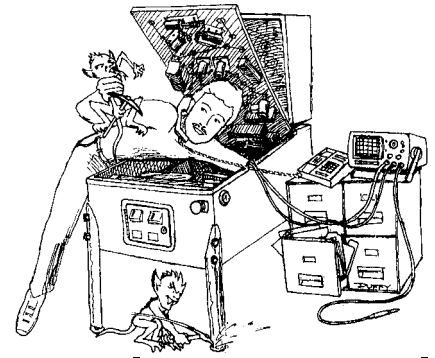




# Nº 166 Service Bulletin



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**TO:** Parts & Service Managers

**DATE:** September 20, 2006

**SUBJ:** Grand Prix / NASCAR®  
Trough Up-Kicker Failure



**Symptoms :**

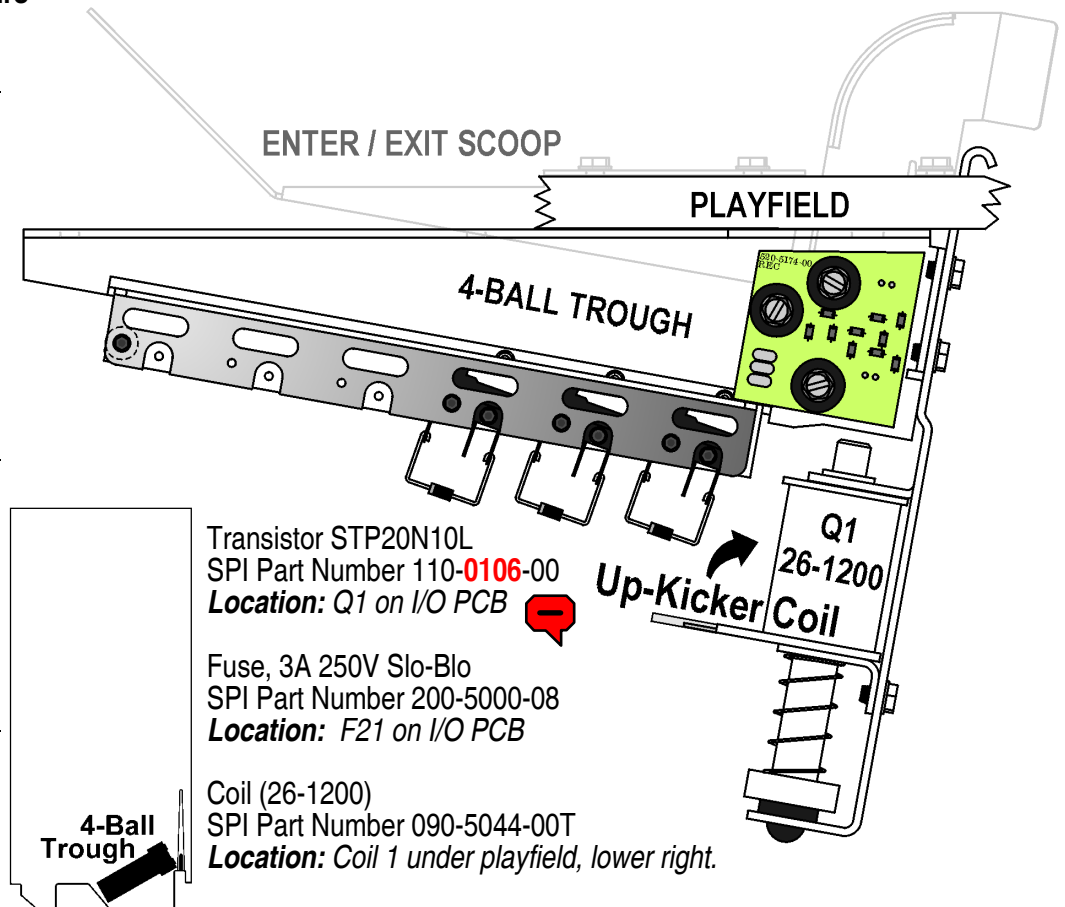
- Game will not start.
- 50VDC coils are inoperable.
- I/O Power Driver PCB F21 3A 250V SLO-BLO Fuse is blown.
- Trough Up-Kicker (*Coil #1*) is overheating (*paper wrap is browned*).
- **Q1** Transistor STP20N10L (*on I/O PCB*) is shorted.

**Explanation :**

The Game Software Version **4.20** or lower (*U210 on the CPU/Sound Board II*) has a problem in which it may repetitively fire the Trough Up-Kicker Coil when serving the ball up to the *Shooter Lane*.

**Solution :**

**Ensure your Game Code** on your CPU/Sound Board in location U210 is **v4.50+** and replace all faulty components.



If you do not have an ePROM Burner, you'll need to order the latest version on an EPROM from your local distributor. Ask for SPI Part Number 960-5009-00 and specify if you need Grand Prix or NASCAR Game Code.

For the location & how to change out your EPROM (**U210**), refer to Service Bulletin **150**. Also, review Service Bulletin **161, Part 1: Enter/Exit Scoop Modification**, to ensure you have the proper length screws for the Enter/Exit Scoop.

For Service Bulletins, Binary Code and other helpful information, visit our website [www.sternpinball.com/techsupport.shtml](http://www.sternpinball.com/techsupport.shtml) and click the appropriate links. Please phone or eMail with any questions or comments to the below address.