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**MANUALS — SCHEMATICS — TECHNICAL BULLETINS
DIP SWITCH SETTINGS — PIN-OUTS — TRAINING**



January 31, 1983

TECHNICAL UPDATE

POLE POSITION™

- o The inability of high score retention after a player has entered his initials can easily be resolved. Change the 3.3v zener diode CR6 (1N4728) to a 3.9v $\frac{1}{2}$ w zener diode (1N748A), or 3.9v $\frac{1}{2}$ w (1N5228). The Atari part number is 131000-002.

- o Maximum speed limitations are caused by improper program initialization on either power up or activating self test. Refer to page 1-10 of the service manual which contains important information relating to this subject. Always double check that the gas pedal is in the uppermost position prior to power up or self test.

- o Double objects, split objects or video tearing may be related to a 74LS161* in the Horizontal Address Counters on the video PCB (Locations 9H, 9K, 10H, 10J, 10K and 10L). To determine the failing IC, heat each IC with a soldering iron for about 30 seconds. A failing IC will cause the video to change. The most likely suspects are 9H and 10H. Replace with a 74S161**

- o Continuous high gear operation can be insured by proper setting of the gear shift switch. Loosen the two switch holding screws, push and hold the switch as close as it will go towards the actuator pin and then tighten the screws.

* Atari PN - 37-74LS161

** Atari PN - 137287-001

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- o An intermittent or grounded 5v on the CPU PCB could be a mechanical contact between the foil of capacitor C54 and a trace. Simply rotate the cover of the capacitor until the short is removed. The capacitor is located between IC's 10D and 10E.

- o Fuse F-3 used in the Power Supply Tray is a 25 Amp fuse. If the F-3 label indicates a 20 Amp, change label to show 25 Amp fuse. Also, make the appropriate change to the schematic (SP-218) on page 3B.

- o Make the following changes to the Service Manual TM-218:
 - Page 1-6, Figure 1-4: The On/Off positions of the PCB option switches are reversed. Actually up should be Off and down should be On.

 - Page 3-11, Steering Wheel parts list: The Radial Optical Coupler part number should read 139002-001. The 030369-01 is not and should not be used.

 - Page 1-9, Switch Settings: Staple the accompanying Pole Position Qualifying Time to this page. The table lists all the qualifying time for each starting pole position and difficulty levels. You may want to make an extra copy to staple inside the game for easy reference.

- o Page 3-14, Figure 3-7: Circled potentiometer harness connections should be changed. The red and black connections should be swapped.