TECHNICAL NEWSLETTER VOLUME 4, ISSUE 6 NOV./DEC. 1983 MYLSTAR ELECTRONICS, INC.

INTRODUCTION

Due to the advances in game technology, Mylstar Electronics, Inc. realizes the need to make the transition to Video Disc Game maintenance and troubleshooting as trouble free as possible. For your convenience included in this issue of ON TARGET and replicated in your M.A.C.H. 3 instruction manual, is a system troubleshooting flow chart. By using the flow chart in a step by step logical sequence many headaches and wasted time can be minimized or avoided.

A troubleshooting flow chart, together with the theory of operation section in the instruction manual and use of the self test mode, will help you isolate and correct almost any problem that may occur in an effective and expeditious manner. For example, look at the decision "DIAMOND" that asks "is reset high?". The reset signal should be approximately +5V DC and can be found at P1 Pin 3 of the MA-498 Logic Board Assembly. Next, find the decision "DIAMOND" that asks "is disc ready high?", the disc ready flag should be +5V DC and can be found at P6 Pin 1 of the MA-497 Color/Sync Board, and originates at I.C. U4 Pin 10.

Many so-called "Electronic" problems may be in actuality due to improper disc and player maintenance.

1. Store extra discs in an upright position.
2. Clean disc with a glass or plastic cleaner with a soft non-abrasive lint free cloth.
3. Do not use alcohol-based cleaners as this may attack the plastic coating on the disc and destroy it.
4. Discs should be cleaned a minimum of once a month and more frequently if the game is in a dusty area.
5. Clean the filter a minimum of once a month and more frequently if the game is in a dusty area.

OBJECTIVE LENS (VIDEO DISC PLAYER)

1. Clean objective lens a minimum of once a week.
2. Never use "Q-TIPS" to clean objective lens.
3. Use "FREON" Trichlorotrifluoroethane solvent to clean lens (TF solvent).

4. Pioneer GED-008 Lens Paper is recommended for cleaning the objective lens. Using a pair of rounded end tweezers (never sharp edges) fold a lens paper in half. Leaving 1/4" protruding past the end of the tweezers wrap all of the paper around the tweezers. Spray the lens with the TF Solvent and clean immediately with the lens paper. Use the lens paper only once and discard. The Pioneer GED-008 Lens Paper is available at your Mylstar authorized distributor.

NEVER MOVE GAME WHEN IT IS TURNED ON!

Even if you are only going to move it a few inches. Failure to turn the game off may result in damage to the disc or the player or both. It is best to leave the game off for 30 seconds before moving the game. If the game is to be moved to another location remove the disc, place within its protective packing. Replace the shipping screw, the lens cover and secure the shipping bracket to hold the video disc player in place.

CORRECTIONS TO INSTRUCTION MANUAL

Section VII. BOOKKEEPING AND SELF TEST page 11

"Still Frame Decoder" reads "adjust R204 until a constant uninterrupted tone is heard," should read “adjust R204 until a constant uninterrupted beeping tone is heard." This change also applies to the Play Frame Decoder.

Audio Track Adjustment (middle of last paragraph page 11 of instruction manual) reads "if R6 on the Interface Board is not correctly adjusted, two tones will be heard instead of one," should read "if R6 on the Interface Board is correctly adjusted two tones will heard instead of one.” Also reads, "follow the same procedure to produce one tone if only two are heard.” Should read, “follow the same procedure to produce two tones if only one is heard."

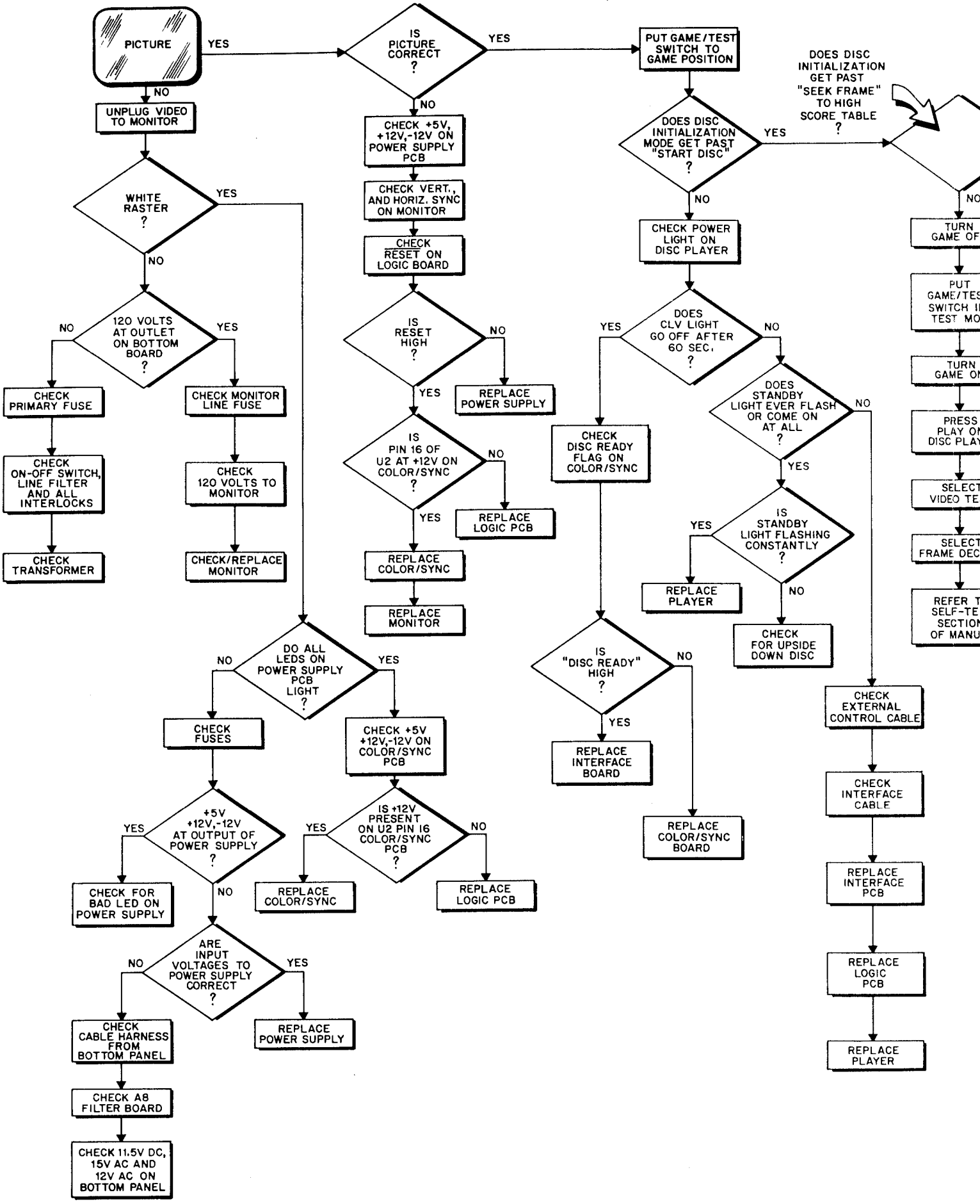
Section IX. THEORY OF OPERATION

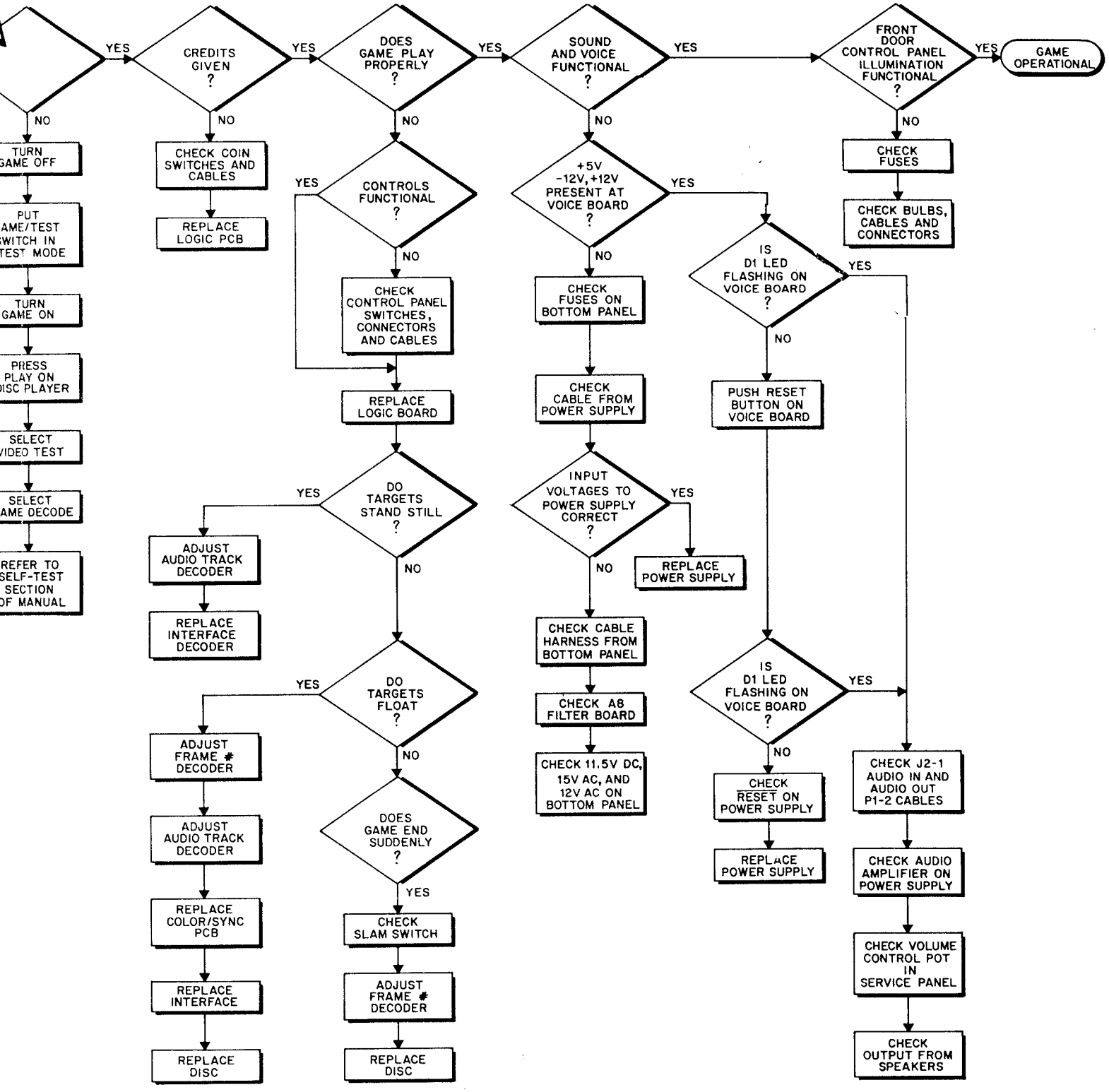
Bottom right paragraph page 17 of instruction manual "STRIP THE FRAME NUMBER" reads, "potentiometer R202 adjusts the comparator voltage level” should read, "Potentiometer R204 adjusts the comparator voltage level."

INFORMATION UPDATE

If you are experiencing any problems with your M.A.C.H. 3 game, please contact your distributor.

M.A.C.H. 3 TROUBLESHOOTING





HOOTING FLOW CHART