Technical Tips/Repair For ColecoVision Video Game Console.

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Black Out on Screen.
In the Screen blacks out after the game has been played for a short interval.
Replace **C 106** and check for prober polarity.

Purple Monkey.
In Donkey Kong, if the monkey, Mario and the barrels are purple, rather than their normal colors.
Replace **U 9**.

Joystick Game selection.
If the keypad does not control the game selection, only the joystick can be used to select games.
Replace **U 6**.

Channel 3 But Not Channel 4.
Channel 3 operates normally but channel 4 works only if the game is turned off and then turned on again, (or vice versa).
Replace the **RF board**.

Not all cartridges Function.
Game does not accept all and/or any cartridges.
Examine **C 70** for mechanical obstructions is it flopped over flat on board ? Replace **U 5**.

Vertical Lines.
Vertical lines on the background rather than solid blue background with no lines.
Replace **C 106**.

Skips Menu.
Menu is skipped. This is the blue screen with skill levels.
Check pins 3 - 9 of U 18 with DVM, if any pin is below 2.2VDC, change **U 18**.
Check pins 2 - 8 of U 19 with DVM, if any pin is below 2.2VDC, change **U 19**.

No Explosion.
If there is no explosion in the sound test from the noise generator via the Final Test Cartridge.
Replace **U 20**.

12 VDC is shorted to -5VDC.
Examine **WJ2** to see if it has shorted to adjacent test points.

No RF Voltage.
If there is no voltage to RF board, check **WJ2**.

No Color.
If color has disappeared, check frequency at **J 4** at **pin 8**.
Correct frequency is 3.57954 Mhz. ± 100Hz.
If the frequency is incorrect, check the **clock circuit**.

Double Image.
Replace **U 9**.

Wavey Picture.
If the picture is wavey, ensure that **R 62** is **270 Ω** and **C 90** is **120 pF**.
If they are incorrect replace them.
Check also **Q2**, if it is an **ITT** transistor, replace it.

Incorrect Scoring.
If scoring is not working properly, replace **U 3** and/or **U 4**.

Wrong Frequency.
If 3.579 Mhz. clock is a wrong frequency, and if **U 22** is a Texas Instrument.
Replace it.

Bad Spinner Interface.
Spinner Interface is not working.
If **U 24** is a Texas Instruments IC, **replace it**.

Slow game.
If the game is running abnormally slow, **U 20**.