



Commodore 1541 Floppy Drive Hardware Failure Cheat Sheet

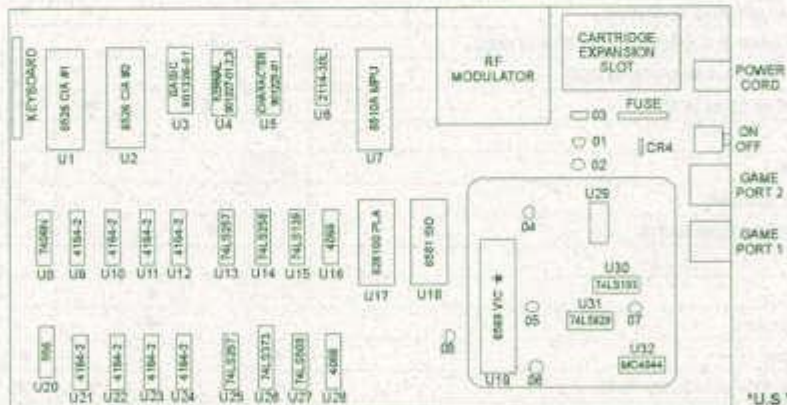
See the original scan at the bottom of this page

Commodore Diagnostician II By Ian Perry, Kyneton, Victoria 3444, Australia Sept 1989 Symptomatic Chart Diagnosing Faulty IC Components On Commodore 1541 Floppy Drive	6502	6522	325302	901229	LB311	592	9602	325572
Error LEB blinks on power up	x		x					
Searching with no red LED			x	x				
Drive fails to read					x	x	x	x
Fails to format		x						x
Stepper motor does not step		x						x
Will not save when drive heats up	x	x						
Lights stay on, motor runs continuously	x			x				
No LEDs on power up	Check power supply voltage, Check CR3, VR2, VR1, CR1							
Drive motor runs continuously with no green LED	Check 5Volt on power supply							
Flashing light on and off	Check UC1, UD2							
Message of 'FILE NOT FOUND' is displayed	Check alignment, defective disk							
Drive speed will not stabilize	Clean drive head w/ Alcohol, check alignment							
Display reads ERROR 21-29 (Disk Errors)	Check PCB speed (LAG570 - for Newt. Drive)							
Write protect on ERROR #25	Check WPS, UA1, Write Protect Switch, alignment							
Track 18 Display 21 read ERROR	Check alignment, UC2, UE6, check R/W head							
Will not load certain programs	Check alignment, track 0 stop							

COMMODORE 1541 FLOPPY DRIVE

SYMPTOMS	POSSIBLE SOLUTION						
	6502	6522	325302	901229	LM311	592	9502
Error LED blinks on power up.	•		•				
Searching with no red LED.			•	•			
Drive fails to read.					•	•	•
Fails to format.		•					
Stepper motor does not step.		•					
Will not save when drive heats up.	•	•					
Lights stay on, motor runs continuously.	•			•			
No LEDs on power up.	Check power supply voltage, Check CR3, VR2, VR1, C						
Drive motor runs continuously with no green LED.	Check 5VLT on power supply.						
Drive motor runs continuously with green LED on.	Check UC1, UD2.						
Flashing light on and off during loading, load is intermittent.	Check alignment, defective disk.						
Message of 'FILE NOT FOUND' is displayed.	Clean drive head w/ alcohol, check alignment.						
Drive speed will not stabilize.	Check PCB speed, (LAG570 - for Newt. Drive).						
Display reads ERROR 21-29 (Disk Errors).	Check diskette, drive motor.						
Write protect on ERROR #25.	Check WPS, UA1, Write Protect Switch, alignment.						
Track 18 Display 21 read ERROR.	Check alignment, UC2, UE6, check RW head.						
Will not load certain programs.	Check alignment, track 0 stop.						

C-64 CHIP LAYOUT



*U.S. Version of the 6569 is 6569A

- HINTS:**
- 1) Over 50% of faulty computers are caused by the external power supply delivering excessive voltages.
 - 2) Check power supply to see if your unit has a fuse which could be changed.
 - 3) Check all interconnecting cables.

AVAILABLE DIAGNOSTICS

- COMPLETE SCHEMATICS
- COMMODORE SERVICE MANUALS
- "TECH" UPGRADE/INFO NEWSLETTER
- PARTS REPLACEMENT/UPGRADE IC LISTINGS
- DIAGNOSTIC TESTERS/EVALUATORS

REPLACEMENT CHIPS (IC's) CAN BE OBTAINED REASONABLY FROM:

USE YOUR COMMODORE II SERIAL NUMBER TO OBTAIN A DISCOUNT ON ALL REPLACEMENT/UPGRADE CHIPS.

Disclaimer: I hereby disclaim any responsibility for the accuracy of the information on this chart and disclaim all liability for the use thereof. This chart is supplied as an adjunct to Commodore computer users. It is intended for assistance in isolating a faulty chip and is to be used by persons experienced in the repair of computers and computer related devices.