


REV	REVISIONS DESCRIPTION	DATE	APPROVED
1A	ENG REL ERO# E04452	5/3/84	<i>[Signature]</i>

ENVIRONMENTAL/RELIABILITY ENGINEERING
TEST REPORT

5200L (5100) CURRENT REQUIREMENTS

ENGINEERING RELEASED

		DRAWN BY	DATE	 <p>Atari, Inc. 30 E. Plumaria Drive San Jose, CA 95134</p> <p><small>A Warner Communications Company</small></p>		
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NEXT ASSY	USED ON	ENGINEER	DATE	TITLE		
		<i>[Signature]</i>	5/2/84	5200L (5100) CURRENT REQUIREMENTS		
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		<i>[Signature]</i>	5/2/84	A	C024673-143	1A
		<i>[Signature]</i>		SCALE	SHEET 1 OF 9	

Inter Office Memo



Consumer Electronics Division

To: Pete Gerrard

From: Gil Seymour/Terry Musto *TM.*

Subject: 5200L (5100) CURRENT REQUIREMENTS (C024673-143)

Date: 01/30/84

Five different consoles were measured for current drain under varying load conditions. (Reference current readings Tables I through V). The maximum current drain was 794 ma (Unit #5) under the conditions of 108 to 132 VAC line voltage and presently known maximum load of PSA (VCS Adaptor), cartridge, 5200 trakball and 5100 console.

Current requirement comments:

1. One amp power adaptor for the 5100. The present current needs will be met with a one-amp power adaptor. However, with the extended life of the 5100 and the possible addition of new products, it is recommended that the present 1.4 amp 5100 power adaptor be used for increased current capability. (NOTE: The 1.4 amp power adaptor was designed to be used with the 5100.)

2. Future cost/performance improvement recommendation:

Presently, we use a 1.5 amp power adaptor for the 600XL and the 800XL. This same power adaptor can be used with the 5100 under the following changes:

- o Console cost changes: PCB redesign removing heat sinks, voltage regulators and associated parts. Also, add power input connector to accept the 1.5 amp XL power adaptor.
- o Console benefit will be the elimination of components and heat within the console.

The above recommendation can be a future cost reduction and product improvement.

GS/rh

Attachments

cc: Gene Kuczynski
Ghee Munoz
Ken Ashton
PROJECT FILE

TABLE I

PRODUCT: 5100

SUBJECT: CURRENT READINGS

INIT : 1

	LOW	NORMAL	HIGH
LOAD	108 VOLTS	120 VOLTS	132 VOLTS
NO LOAD (CONSOLE ONLY)	380 MA	382 MA	387 MA
KEVIOUS (CART.) + CONSOLE	472 MA	475 MA	477 MA
KEVIOUS (CART.) TRAKBALL + CONSOLE	506 MA	510 MA	509 MA
(VCS ADAPTER) PILOT #91 + CONSOLE	670 MA	673 MA	685 MA
(VCS ADAPTER) PILOT #91 + CONSOLE + TRAKBALL	702 MA	701 MA	715 ¹⁰ MA

HP 3435A
CURRENT METER

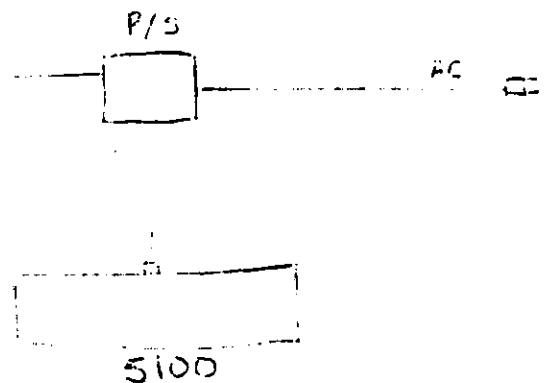
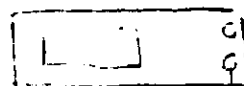


TABLE II

PRODUCT: 5100

SUBJECT: CURRENT READINGS

INIT : 2

	LOW	NORMAL	HIGH
LOAD	108 VOLTS	120 VOLTS	132 VOLTS
NO LOAD	<u>455</u> MA	455 MA	457 MA
KEVIOUS (CART.)	530 MA	549 MA	552 MA
KEVIOUS (CART.) TRAKBALL	575 MA	577 MA	581 MA
PILOT #91	735 MA	740 MA	753 MA
PILOT #91 TRAKBALL	780 MA	773 MA	770 MA

TABLE III

PRODUCT: 5100

SUBJECT: CURRENT READINGS

INIT : 3

	LOW	NORMAL	HIGH
LOAD	108 VOLTS	120 VOLTS	132 VOLTS
NO LOAD	450 MA	453 MA	453 MA
KEVIOUS (CART.)	550 MA	558 MA	551 MA
KEVIOUS (CART.) TRAKBALL	583 MA	580 MA	578 MA
PILOT #91	738 MA	739 MA	749 MA
PILOT #91 TRAKBALL	780 MA	769 MA	778 MA

TABLE IV

PRODUCT: 5100

SUBJECT: CURRENT READINGS

INIT : 4

	LOW	NORMAL	HIGH
LOAD	108 VOLTS	120 VOLTS	132 VOLTS
NO LOAD	420 MA	424 MA	414 MA
KEVIOUS (CART.)	510 MA	508 MA	510 MA
KEVIOUS (CART.) TRAKBALL	538 MA	540 MA	537 MA
PILOT #91	702 MA	708 MA	690 MA
PILOT #91 TRAKBALL	738 MA	736 MA	732 MA

TABLE V

PRODUCT: 5100

SUBJECT: CURRENT READINGS

INIT : 5

	LOW	NORMAL	HIGH
LOAD	108 VOLTS	120 VOLTS	132 VOLTS
NO LOAD	470 MA	470 MA	476 MA
KEVIOUS (CART.)	568 MA	577 MA	570 MA
KEVIOUS (CART.) TRAKBALL	596 MA	593 MA	598 MA
PILOT #91	752 MA	752 MA	748 MA
PILOT #91 TRAKBALL	789 MA	794 MA	789 MA

PRODUCT: 5100

SUBJECT: Voltage Reading (Input) w/ 1.4A P/S

INIT : 2

	LOW	NORMAL	HIGH
LOAD	108 VOLTS	120 VOLTS	132 VOLTS
NO LOAD	9.68 V	10.95 V	12.23 V
(EVIOUS (CART.))	9.56 V	10.82 V	12.12 V
(EVIOUS (CART.)) TRAKBALL	9.52 V	10.79 V	12.06 V
PILOT #91	9.33 V	10.60 V	11.87 V
PILOT #91 TRAKBALL	9.30 V	10.54 V	11.83 V

PRODUCT: 5100

SUBJECT: Voltage Reading across w/ 1.4A F/S

NIT : 2

	LOW	NORMAL	HIGH
LOAD	108 VOLTS	120 VOLTS	132 VOLTS
NO LOAD	4.65V	5.97V	7.22V
PREVIOUS (CART.)	4.49V	5.80V	7.07V
PREVIOUS (CART.) TRAKBALL	4.45V	5.79V	7.05V
PILOT #91	4.25V	5.64V	6.90V
PILOT #91 TRAKBALL	4.24V	5.58V	6.88V