

# PRE POWERUP TEST PROCEDURES

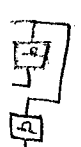
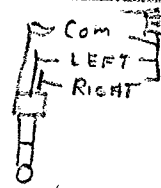




Test OK \$ Fall

CARD IN	Pin #	Name	#	METER READING	Position	PROBLEMS	TEST OK
A1		Joystick	J13	OPEN → short	↓ DOWN		✓
A2		"	"				✓
A3		"	"				✓
A4		"	"	OPEN → short	← LEFT		✓
A5		"	"				✓
A6		"	"	OPEN → short	↑ UP		✓
B1		"	"				✓
B2		"	"	OPEN → short	→ Right		✓
B3		Joystick	J14				✓
B4		"	"	OPEN → short	↓ DOWN		✓
B5		"	"				✓
B6		"	"	OPEN → short	← LEFT		✓
C1		"	"				✓
C2		"	"	OPEN → short	↑ UP		✓
C3		"	"				✓
C4		"	"	OPEN → short	→ Right		✓
C5		Joystick	J33				✓
C6		"	"	3.01K-2.09K	UP → DOWN		✓
D1		"	"	2.09K-3.01K	DOWN → UP		✓
D2		"	"				✓
D3		"	"	3.01K-2.09K	UP → DOWN		✓
D4		"	"	2.09K-3.01K	DOWN → UP		✓
D5		J/S Pushball	J13				✓
D6		"	"	OPEN → short	PUSH		✓
E1		J/S Pushball	J14				✓
E2		"	"	OPEN → short	PUSH	Have to push to far	✓
F3		POT	POT 1	0-5.2K	Left to Right		✓
F4		POT	1	0-5.2K	Right to Left		✓
E6		POT	POT 2	0-5.2K	Left to Right		✓
F1		POT	2	0-5.2K	Right to Left	Bad	✓
F2		POT	2	0-5.2K	Left to Right		✓
F3		POT	3	0-5.2K	Right to Left		✓
F4		POT	3	0-5.2K	Left to Right		✓
F5		POT	3	0-5.2K	Right to Left		✓
F6		POT	POT 4	0-5.2K	Left to Right	Bad	✓
G1		POT	4	0-5.2K	Right to Left		✓
G2		POT	4	0-5.2K	Left to Right		✓

CANNON  
A cont  
Pin #

NAME	#	METER READING	POSITION	PROBLEMS	TEST OK	
G3 - Gear Shift COMMON	G E A R S H I F T		1st GEAR 2ND GEAR 3RD GEAR REV GEAR	Wrong	V	
G4 - 1st GEAR						Short in 1st
G5 - 2ND GEAR						Short in 2nd
G6 - 3RD GEAR						Short in 3rd
H1 - REV						Short in 4th
H2 - Switch 1 COM	S1		DOWN/UP		V	
H3 - Norm OPEN						OPEN -> Short
H4 - Norm Closed						Short -> OPEN
H5 - Switch 2 COM	S2		"		V	
H6 - Norm Open						"
J1 - Norm Closed						"
J2 - Switch 3 COM	S3		"		V	
J3 - Norm OPEN						"
J4 - Norm CLOSED						"
J5 - Switch 4 COM	S4		"		V	
J6 - Norm OPEN						"
K1 - Norm Closed						"
K2 - Switch 5 COM	S5		"		V	
K3 - Norm OPEN						"
K4 - Norm Closed						"
K5 - Switch 6 COM	S6		"		V	
K6 - Norm OPEN						"
L1 - Norm Closed						"
L2 - Switch 7 COM	S7		"		V	
L3 - Norm OPEN						"
L4 - Norm Closed						"
L5 - Switch 8 COM	S8		"		V	
L6 - Norm OPEN						"
M1 - Norm Closed						"
M2 - Switch 9 COM	S9		"		V	
M3 - Norm OPEN						"
M4 - Norm CLOSED						"
M5 - Switch 10 COM	S10		"		V	
M6 - Norm OPEN						"
N1 - Norm CLOSED						"
N2 - Switch 11 COM	S11		"		V	

CALLEN  
AGE

PIN#	NAME	#	METER READINGS	POSITION	PROBLEMS	TEST OK
N5 N6 P1	Switch 12 COM NORM OPEN NORM CLOSED	S11	 OPEN -> Short Short -> OPEN	DOWN -> UP DOWN -> UP		✓
P2 P2 P3 P4 P5	STEERING BD " " " "	STEERING G	TEST with Bd  (LEMANS)	G LEFT TURN D RIGHT TURN		✓ ✓ ✓
P6 R1 R2	Speaker out LEFT Speaker out COM Speaker out Right	SPEAKER O/P				✓ ✓
R3 R4 R5	<del>NA</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>
R6 S1	5V POWER SUPPLY	<del>X</del>	 +5V	GOES TO BNC CONNECTOR		✓
S2 S3	COIN COUNTER	<del>X</del>	TEST WITH LEMANS	COUNTS 1 STEP PER PULSE		↓
S4 S5 S6	COIN SW 1 COM NORM CLOSED NORM OPEN	COIN 1	 Short -> OPEN OPEN -> Short	PUSH	Coin sw. sticks	✓
T1 T2 T3	COIN SW 2 NORM CLOSED NORM OPEN	COIN 2	 Short OPEN OPEN Short	Push		✓
T4 T5 T6	Start SW NORM CLOSED NORM OPEN	Start Switch	 Short OPEN OPEN Short	PUSH		✓
U1 U2	CREDIT LITE +5V CREDIT LITE -5V	CREDIT LITES	Check with Battery			↓
U3 -> +5V ↓ W2 W3 W4 W5	AUX LITES  +5V -	LITES 1 thru 6  7 + 8	Check with STEEPLE CHASE  Check with in 5V BATTERY	Push coin once Lites 1+4 Push L to 2+5 Push Lites 3+6	Lite shorted to ground wire was crimped in meter bracket overriding 6V AC	↓ OK and causing Distorted Video

CANNON  
A cont  
Pin

Pin	NAME	#	METER READING	POSITION	PROBLEM	TEST OK	
X1	A N/C	S15		DOWN UP		✓	
X2	A COM	Sec A					✓
X3	A N/B						
X4	B N/C	Sec B			"		✓
X5	B COM						
X6	B N/B						
Y1	C N/C	Sec C			"	Pin 42 Push in	✓
Y2	C COM						
Y3	C N/B						
Y4	A N/C	S16	"	"		✓	
Y5	A COM	Sec A					
Y6	A N/B						
Z1	B N/C	Sec B	"	"		✓	
Z2	B COM						
Z3	B N/B						
Z4	C N/C	Sec C	"	"		✓	
Z5	C COM						
Z6	C N/B						
q1	A N/C	S17	"	"		✓	
q2	A COM	Sec A					
q3	A N/B						
q4	B N/C	Sec B	"	"		✓	
q5	B COM						
q6	B N/B						
b1	C N/C	Sec C	"	"		✓	
b2	C COM						
b3	C N/B						
b4	A N/C	S18	"	"		✓	
b5	A COM	Sec A					
b6	A N/B						
c1	B N/C	Sec B	"	"		✓	
c2	B COM						
c3	B N/B						
c4	C N/C	Sec C	"	"		✓	
c5	C COM						
c6	C N/B						

CANNON  
B  
Pin #

NAME

#

METER  
READING

Position

Problem

TEST  
OK

A1 REVERB IN  
A2 REVERB out  
A3 REVERB com

X

TEST WITH  
AUDIO GEN  
+ SCOPE

X

✓

A4

X

X

X


X

X

X

A5 Transformer 1  
"check AC SEC  
wiring before CT  
turn on" SEC

TRANS  
1

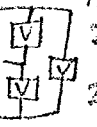
AC VOLTS  
 22V 47V  
22V

S/B 1 ON  
Turn Slowly  
Variac 1  
Full C/W

✓

B2 Transformer 2  
"check AC SEC  
wiring before CT  
turn on" SEC

TRANS  
2

AC VOLTS  
 22V 47V  
22V

S/B 2 ON  
Turn Slowly  
Variac  
Full C/W

✓

B5

X

X

X


X

X

✓

B6 POWER SUPPLY  
C1 0 to 28 V

X

DC VOLTS  
 0-28V

S/B 2  
ON

✓

C2

X

X

X


X

X

✓

C3 6 VOLT AC  
C4 TRANS.  
TWO GREEN WIRES

X

AC VOLTS  
 6V AC

S/B 1  
ON

✓

C5

X

X

X

X

X

X

↓

F3

F4 Joystick 1 DOWN LEFT  
F5 N/C UP  
F6 only RIGHT  
F1

J13

FROM CANNON A CANN  
-A2 USE connections  
-A4 TO LEFT \*  
-A6  
-B2

MOVE  
J11  
↓ ← ↑ →

✓

F2 Joystick 2 DOWN  
F3 N/C LEFT  
F4 only UP  
F5 RIGHT

J14


FROM CANNON A CANN  
-B4  
-B6  
-C2  
-C4

↓ ← ↑ →

✓

F6 + }  
G1 + } 8V  
G2 + }  
G3 + }  
G4 + } 4A Power  
G5 + } Supply output  
G6 + } 7  
H1 + } 5

X

8.5V DC  
 8.5V to 10.5V (DC)

MAKE  
SURE  
S/B & FUSE  
INSTALLED  
IN POWER SUPPLY  
TO REAR PANEL  
turn on G67

✓  
✓  
✓  
✓

CANNON  
B. cont  
PIN

	NAME	#	METER READING	POSITION	PROBLEMS	TEST OK
L6	VIDEO HOT					
M1	VIDEO GROUND					✓
M2	EARTH GROUND					✓

Pin on circular  
Cannon Pushed  
out to far

Games Ch ok      Lemans ✓  
Sprint 2 ✓  
Steeple Chase ✓