

P & P MARKETING, INC.

POLICE TRAINER™
PROPERTY OF METRO POLICE ACADEMY

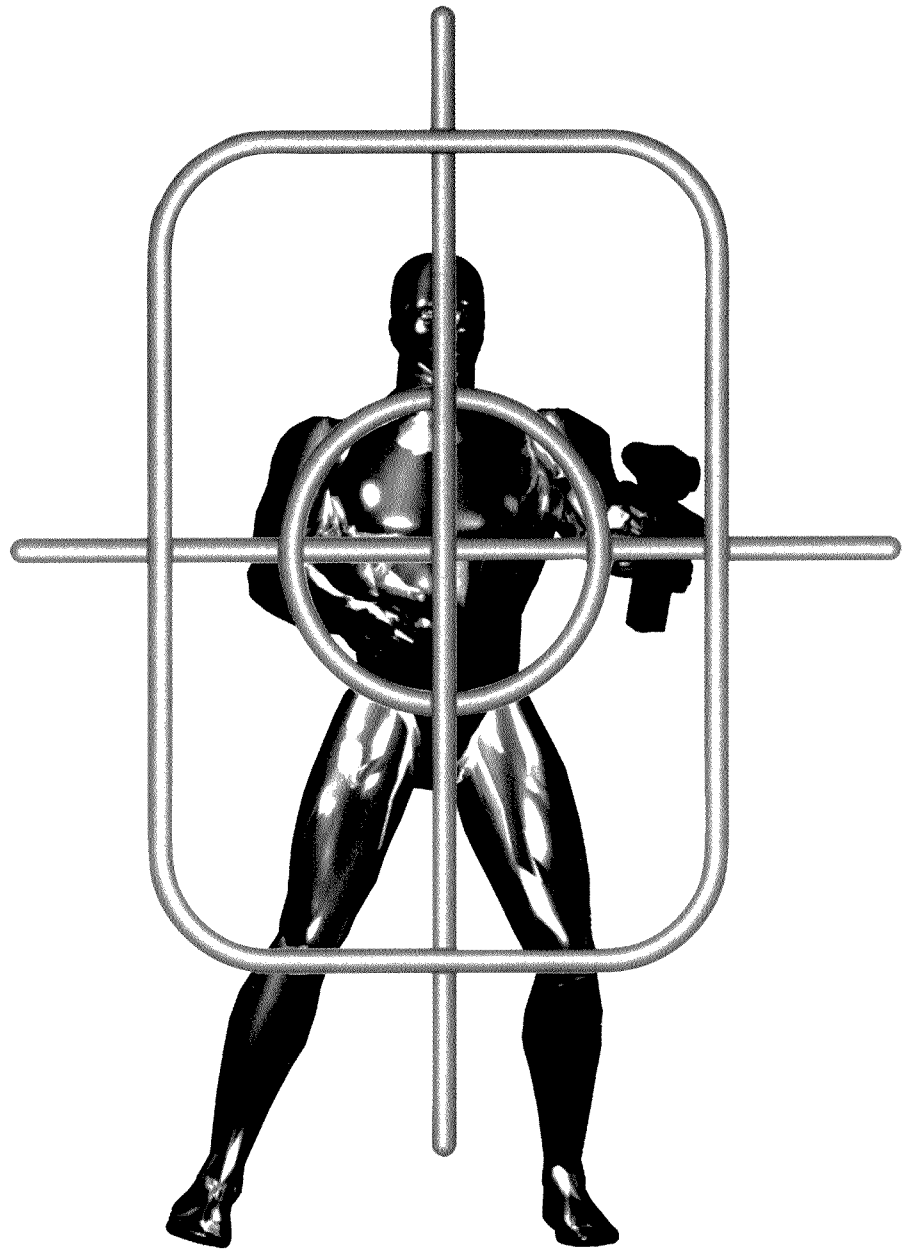


TRAINER™ is a trademark of P & P Marketing, Inc.

INSTRUCTION MANUAL

SERVICE # 1-773-292-4540

PART NO. 780-8000-00



POLICE TRAINER PARTS LIST

PART #	DESCRIPTION	NOTE
515-8050-02	POLICE TRAINER PCB	
830-8002-00	POLICE TRAINER MARQUEE	
830-8001-00	POLICE TRAINER CONTROL PANEL OVERLAY	
820-8018-00	POLICE TRAINER SIDE DECALS (2)	
780-8000-00	POLICE TRAINER MANUAL	
450-8002-00	KIT BOX	
036-8040-00	JAMMA WIRING HARNESS	*
660-8088-00	GUN HOLSTERS (2)	**
810-8001-00	GUN, RED	**
810-8002-00	GUN, BLUE	**
540-8001-00	BUTTON, RED	**
540-8002-00	BUTTON, BLUE	**

NOTES:

* Not included in "No Harness" kit or "Stripped" kit.

** Not included in "Stripped" kit.



POLICE TRAINER SETTING UP

Install the PCB into a JAMMA wired cabinet. All required connections are shown on the schematic entitled "POLICE TRAINER WIRING." (page 7) Speakers can also be wired to CN7, providing compatibility with some existing games.

Power the game. Dip switches control the monitor sync signal polarity and flip the screen in case of a mirrored monitor. Set the switches appropriately. Note: It takes several seconds after power-up before the switch's on state is recognized.

<u>DIP SWITCH</u>	<u>ACTION</u>
1-6	NOT USED
7	SYNC POLARITY
8	VERTICAL FLIP

Press the test button to enter the service mode to calibrate the guns and modify the settings if necessary. Details on these operations are in the next section.



POLICE TRAINER SERVICE MENUS

Press the TEST button to enter the service mode. START1 moves the cursor's position. START2 causes action to occur.

The top level service menu looks like:

	SERVICE
	AUDITS
	SETTINGS
	DIAGNOSTICS
X	EXIT

The "Settings" menu looks like:

	SETTINGS	
	ATTRACT MODE SOUNDS	YES
	VOLUME UP	10
	VOLUME DOWN	
	SPEAKER CONFIG	MONO
	GAME MODE	COIN PLAY
	COINS TO START	1
	COINS TO CONTINUE	1
	CALIBRATE GUNS	
	RESTORE FACTORY SETTINGS	
X	EXIT	

Options are set from the Settings menu. A description of each option follows:

- | | |
|---------------------------|--|
| Attract mode sounds: | If yes, sounds occasionally play during attract mode |
| Volume Up/Down: | Sets the volume. |
| Speaker Config: | Set to MONO if only 1 speaker wired up. Set to STEREO for standard 2-speaker installation. Set to STEREO SWAP if there are two speakers, but they have been wired backwards. |
| Game mode: | COIN PLAY or FREE PLAY. |
| Coins to start: | Coins required to start the game. |
| Coins to continue: | Coins to continue the game. |
| Calibrate guns: | Jumps to the gun calibration screen. |
| Restore Factory Settings: | Restores the factory settings shown above. |



POLICE TRAINER SERVICE MENUS (cont)

The Gun calibration screen is shown below:

GUN CALIBRATION

FIRE AT THE PLUS 16 TIMES EACH
LEFT FIRED 0 TIMES
RIGHT FIRED 0 TIMES

+

To calibrate the guns from this screen, fire each gun at the "+" 16 times. When done, press START2 to exit this screen.

From the main menu, the "Audits" screen can be accessed. It records coins in, game starts, game continues, and some credit time statistics. Coins in are also recorded by the coin counter if wired up. To clear the audits, move the cursor to "Clear Audits" and press START2. The audits screen looks like:

AUDITS

COINS
GAME STARTS
GAME CONTINUES

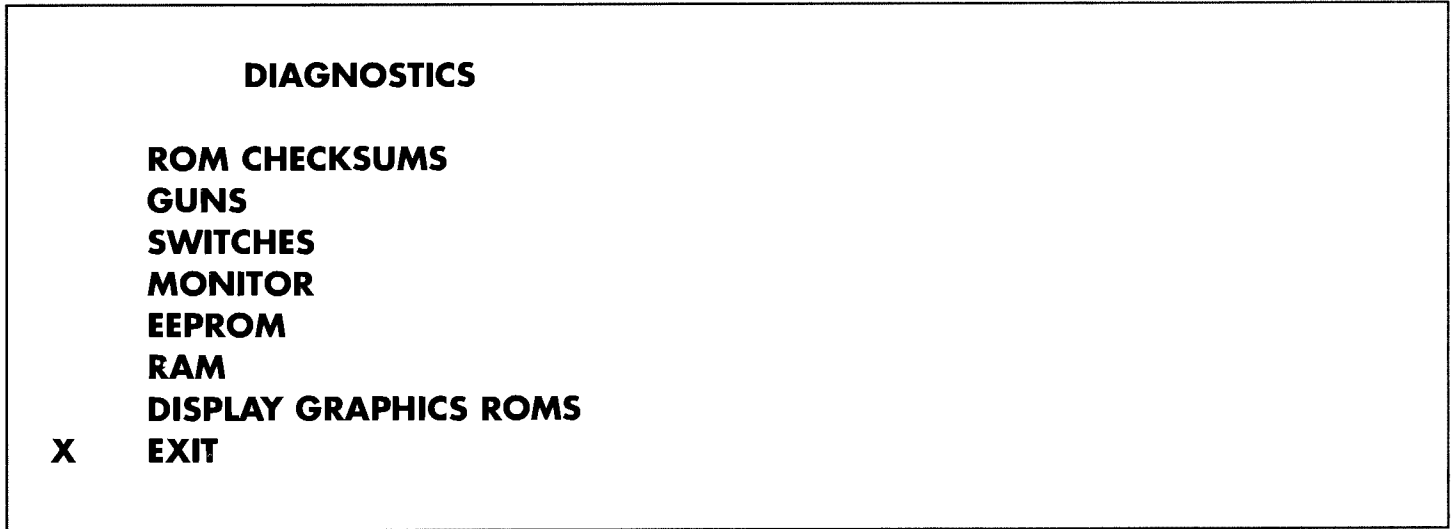
		TIME	PER	CREDIT
RANK	CREDITS	AVG	MIN	MAX
PMN	0	0:00	0:00	0:00
SGT	0	0:00	0:00	0:00
DET	0	0:00	0:00	0:00
CAP	0	0:00	0:00	0:00
CHF	0	0:00	0:00	0:00
COM	0	0:00	0:00	0:00
ALL	0	0:00	0:00	0:00

CLEAR AUDITS
X EXIT



POLICE TRAINER SERVICE MENUS (cont)

From the main menu, the "Diagnostics" screen can be accessed. Each command takes leads to a special screen to diagnose problems.



A description of each test follows:

ROM CHECKSUMS:	Calculates the checksum for each ROM.
GUNS:	Verifies gun firing functionality and accuracy.
SWITCHES:	Displays the state of all switches. Some switches may not be functional in POLICE TRAINER.
MONITOR:	Displays several patterns on the screen.
EEPROM:	Displays the contents of the EEPROM.
RAM:	Performs a simple RAM Test
DISPLAY GRAPHICS ROMS:	Displays the contents of the graphic ROMs.

POLICE TRAINER JAMMA*

SOLDER SIDE

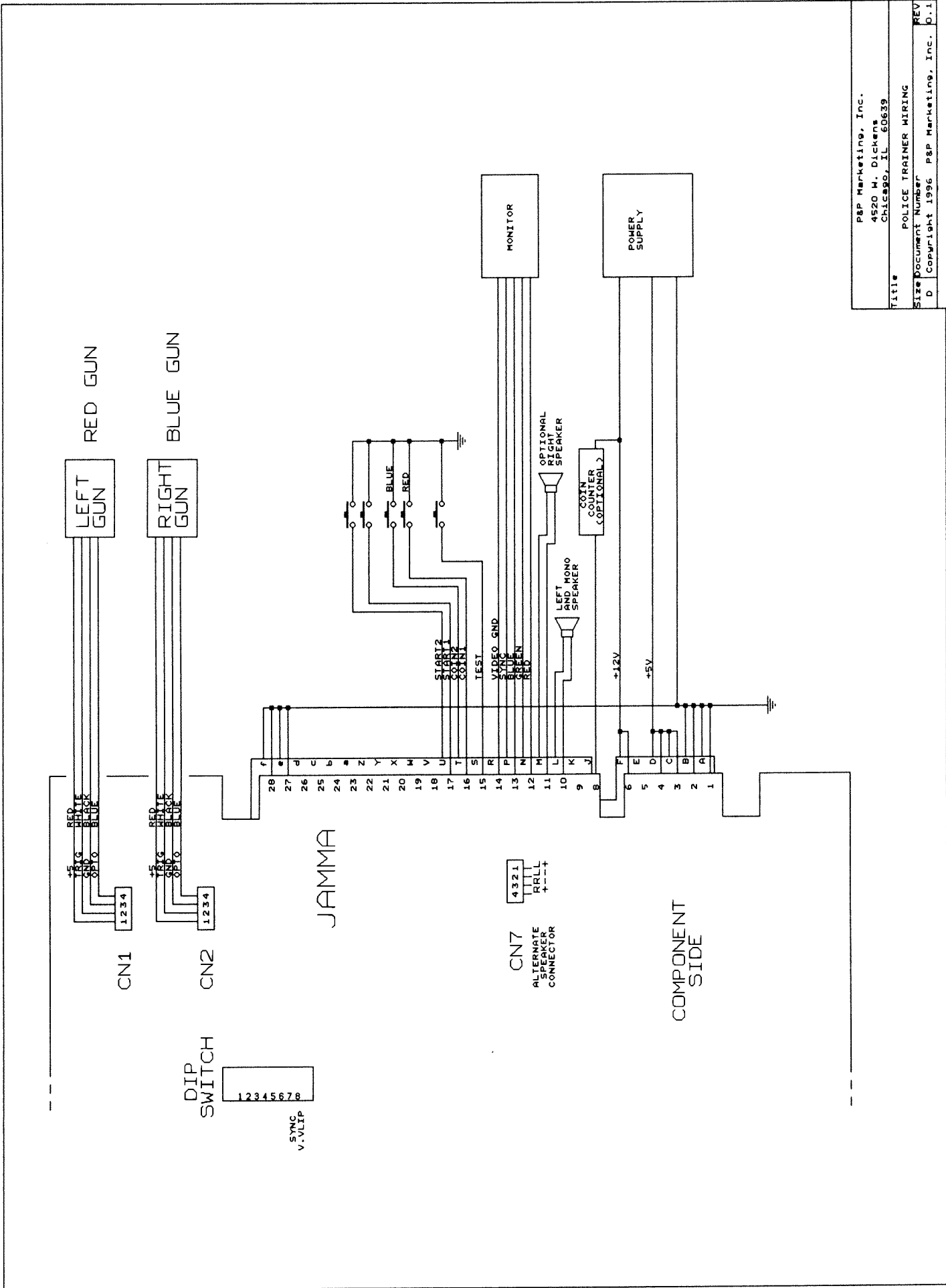
PARTS SIDE

A	GND	1	GND
B	GND	2	GND
C	+5VDC	3	+5VDC
D	+5VDC	4	+5VDC
E		5	
F	+12VDC	6	+12VDC
H	KEY	7	KEY
J		8	COIN COUNTER
K		9	
L	SPKR LEFT-	10	SPKR LEFT+
M	SPKR RIGHT-	11	SPKR RIGHT+
N	VIDEO GREEN	12	VIDEO RED
P	VIDEO SYNC	13	VIDEO BLUE
R		14	VIDEO GROUND
S		15	TEST SWITCH
T	COIN 2	16	COIN 1
U	START 2	17	START 1
V		18	
W		19	
X		20	
Y		21	
Z		22	
a		23	
b		24	
c		25	
d		26	
e	GND	27	GND
f	GND	28	GND

* This JAMMA Harness is not included with some kits.



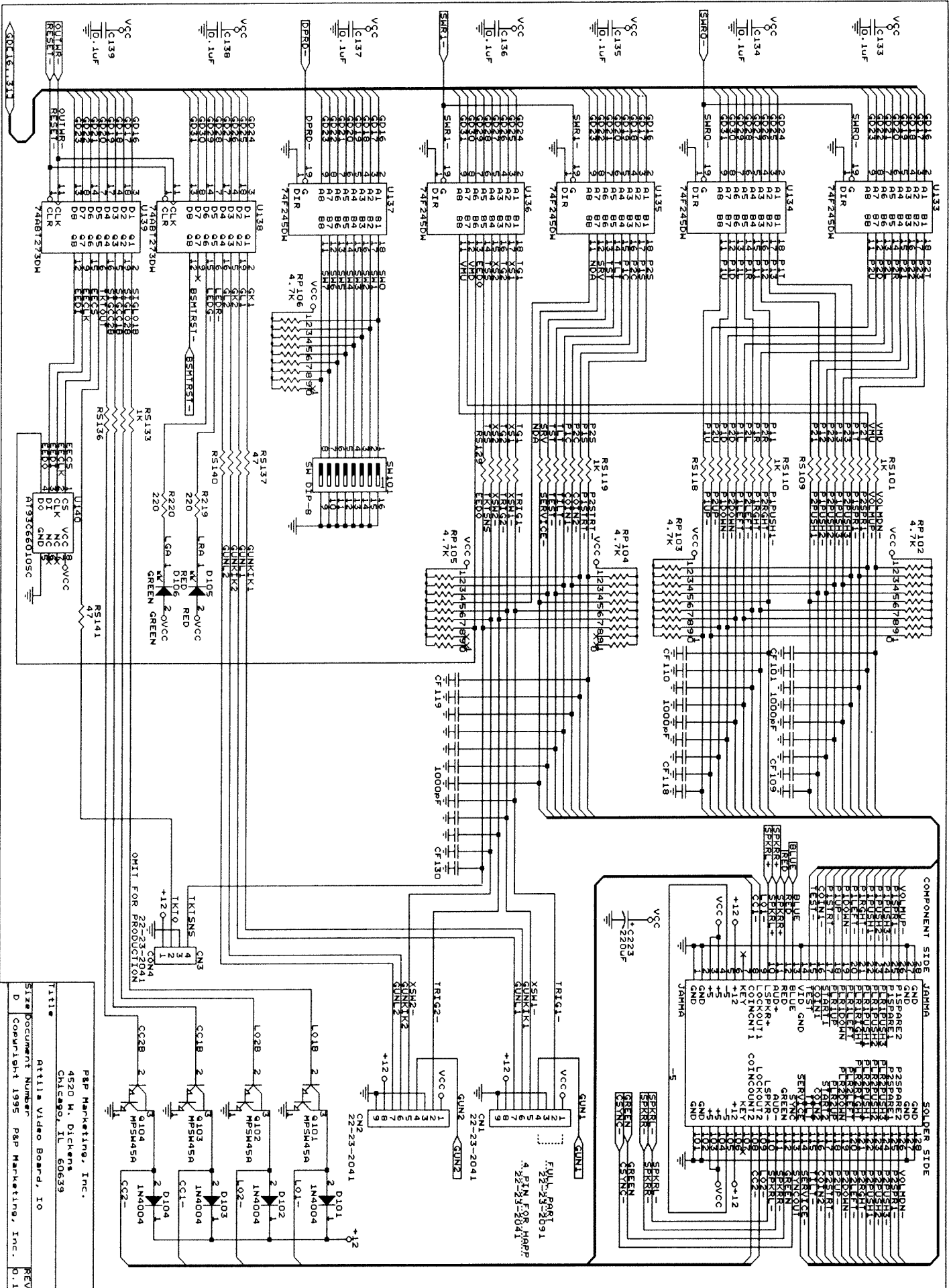
POLICE TRAINER Wiring Diagram



P&P Marketing, Inc. 4520 W. Dickens Chicago, IL 60639	
Title	POLICE TRAINER WIRING
Size	Document Number
REV	D Copyright 1996 P&P Marketing, Inc. 0.1

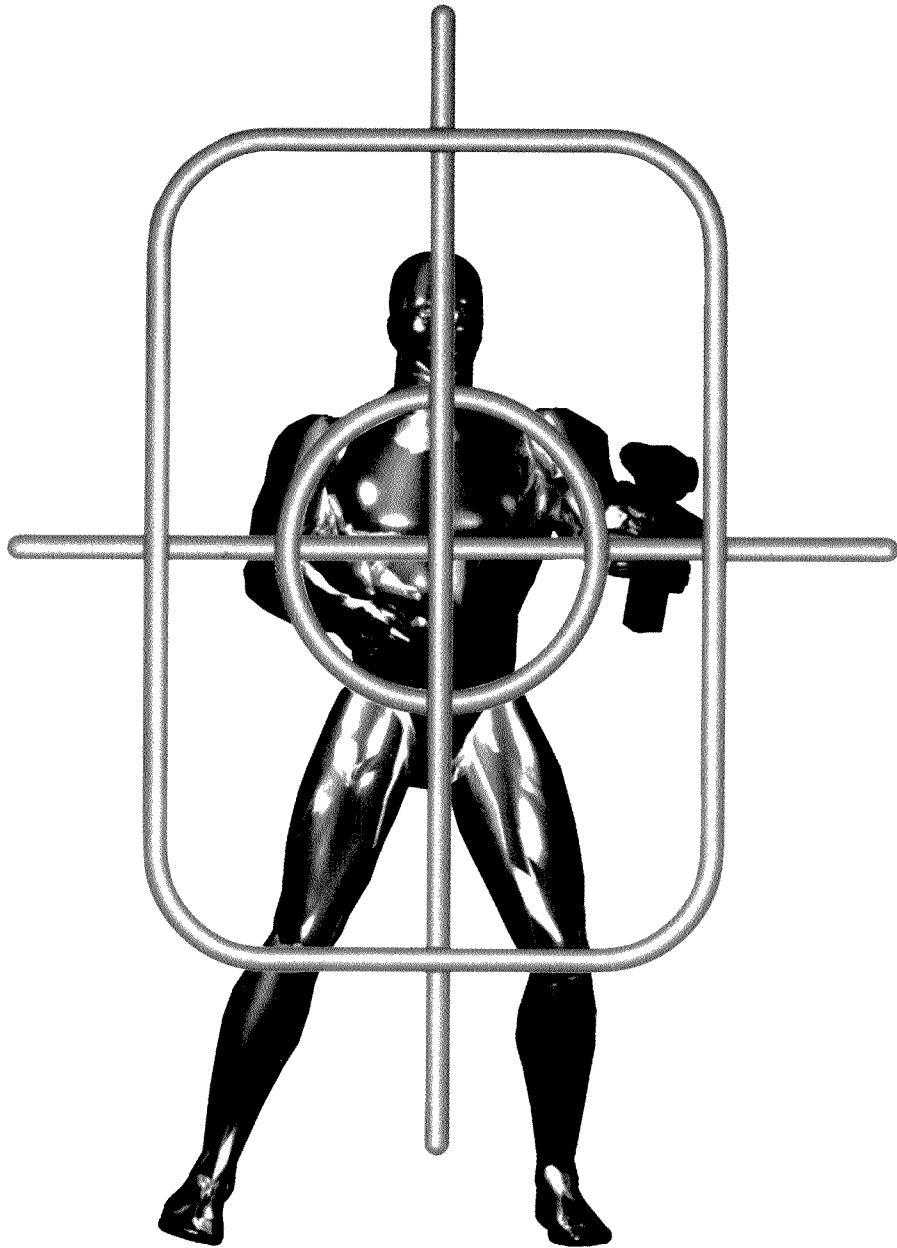


POLICE TRAINER I/O SCHEMATIC



P&P Marketing, Inc.
 4520 W. Dickens
 Chicago, IL 60639
 Title: Police Trainer Video Board, IO
 Size Document Number: P&P Marketing, Inc.
 Copyright 1995







D & D MARKETING, INC.

**4520 W. Dickens Avenue
Chicago, Illinois 60639
Phone: 773-292-4540**