

RENEGADETM

Taito America Corporation

660 S. Wheeling Rd.

Wheeling, IL 60090

(312) 520-9280

IMPORTANT F.C.C. WARNING

WARNING

THIS EQUIPMENT GENERATES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED PROPERLY MAY CAUSE INTERFERENCE TO RADIO COMMUNICATIONS. THIS KIT IS SOLD FOR USE ONLY WITH COIN-OPERATED VIDEO GAMES WHICH HAVE BEEN VERIFIED FOR COMPLIANCE AS CLASS A COMPUTING DEVICES PURSUANT TO SUBPART J OF PART 15 OF FCC RULES, WHICH ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST SUCH INTERFERENCE. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA, OR USE OF THIS KIT WITH A GAME NOT VERIFIED FOR COMPLIANCE, OR ANY IMPROPER CONNECTION, MAY CAUSE UNACCEPTABLE INTERFERENCE WITH RADIO OR T.V. RECEPTION, WHICH COULD RESULT IN CORRECTIVE ACTION OR PENALTY BY THE FCC. THE BOARD CAGE IN THIS KIT MUST BE PROPERLY INSTALLED AND TERMINATED TO GROUND.

This manual will guide you in the conversion of your color monitor upright video game into a **"RENEGADE"**™ game. We urge you to read through the instructions before beginning the conversion.

WARNINGS AND NOTICES

For safety and reliability, Taito America Corporation does not recommend nor authorize any substitute parts or modifications of Taito America Corporation equipment.

Use of non-Taito America parts and modifications of game circuitry may adversely affect game performance and safety.

Substitute parts or equipment modifications may void FCC acceptance.

Since **"RENEGADE"**™ is protected by Federal copyright, trademark and patent laws, unauthorized versions of this game are illegal under Federal Law. This also applies to unauthorized facsimiles of Taito America equipment, logos, designs, publications, assemblies and games (or features not deemed to be in the public domain) whether manufactured with Taito America components or not.

NOTICE

Parts salvaged from your old game are required to complete your kit. These salvaged parts **MUST** operate perfectly, or the converted game can not perform properly or safely. Always repair circuit board malfunctions and cabinet damage before conversion is attempted.

Check the parts supplied in this kit against the parts list included in this manual.

GAME INSTRUCTIONS

Taito America Corporation's "RENEGADE"TM is an excellent game demonstrating the player's skill at street fighting. Gangs have finally taken over the city. There is only one person able to defeat these gangs and eliminate the "Boss." This one person is the Renegade. The attack begins in the subway. Then the action moves to the docks where menacing bikers challenge the Renegade. The all-female gang leads the Renegade into the streets. Finally the action continues to the most deadly gang of all where one stab of their knife will kill the Renegade. In this game you are the Renegade, and only through your skill at street fighting can you defend the city.

HOW TO PLAY

Use joystick to maneuver the Renegade.

Use "Jump" button to jump.

Use "Right and Left Attack" button as indicated.

By hitting the joystick twice in one direction, Renegade will run in that direction.

While an enemy is stooping down, Renegade can put a "choke hold" on him.

The meter at top of screen indicates your strength. When the "Boss" appears his "Strength Meter" also appears.

Lose a life when "Strength Meter" is gone or time runs out.

VARIOUS MANEUVERS

PUNCH: Use "Right or Left Attack" button depending on direction Renegade is facing.

REVERSE THRUST KICK: Use the OPPOSITE "Right or Left Attack" button depending on direction Renegade is facing.

FLYING PUNCHES: Use "Right or Left Attack" button depending on direction Renegade is running.

FLYING KICK: Use "Jump" button when Renegade is running.

TO KICK WHEN RENEGADE HAS A "CHOKE HOLD" ON AN ENEMY: Use "Right or Left Attack" button depending on direction Renegade is facing.

TO BODYTHROW WHEN RENEGADE HAS A "CHOKE HOLD" ON AN ENEMY: Use the OPPOSITE "Right or Left Attack" button depending on direction Renegade is facing.

CAUTION

For safe operation it is recommended the game be grounded. This game should be equipped with a three conductor power cable. The third conductor is the ground conductor and when the cable is plugged into an appropriate receptacle, the game is grounded. The offset pin on the power cable's three-prong connector is the ground connection. Do not use an adapter plug to defeat the ground pin on the power cord.

NOTICE

This kit is not intended for use with X-Y monitors. Suitable monitors are the horizontal or vertical raster-scan with inputs for red, green and blue video as well as negative sync. (These should be compatible with TTL logic levels.)

Note: "RENEGADE"TM uses a horizontal monitor.

NOTICE

Be sure the power supply from your old game is capable of +5 vdc regulated at 6A; +12 vdc regulated at 1A and -5 vdc regulated at 1/2A. These operating voltages are necessary for your kit.

TAITO AMERICA CORPORATION KIT PARTS PROVIDED

- 1-"RENEGADE"TM PC BOARD ASSEMBLY
- 1-8 WAY JOYSTICK ASSEMBLY
- 1-"RENEGADE"TM CONTROL PANEL OVERLAY
- 1-"RENEGADE"TM MONITOR COVER PLEXIGLASS
- 1-"RENEGADE"TM MARQUEE
- 1-WIRING HARNESS
- 1-INSTRUCTION SHEET WITH REMOVABLE CONTROL STICKERS
- 3-BUTTONS
- 1-FCC CAGE
- 2-PCB MOUNTING BLOCKS

TOOLS AND SUPPLIES REQUIRED

SCREWDRIVER
WIRE CUTTERS
ELECTRIC DRILL WITH BITS
SOLDERING IRON AND SOLDER
PLIERS
PHILLIPS SCREWDRIVER
HEX DRIVER
180-GRIT SANDPAPER
GREASE PENCIL OR MARKER
X-ACTO KNIFE
HACKSAW, JIGSAW OR TABLESAW W/CARBIDE-TIPPED BLADE
ELECTRICAL TAPE OR HEAT-SHRINK TUBING

All games require a certain amount of maintenance to keep in good condition. A periodic check of mechanical controls would be beneficial to guarantee your game will be profitable.

GAME PREPARATION

CLEANING

The exterior of the game, all metal parts and all plastic parts can be cleaned with non-abrasive cleaner. Caution should be used when cleaning the plastic. A dry cloth can cause scratches and result in a foggy worn appearance. Plexiglass cleaner on a soft cloth is suggested to maintain and keep your monitor crt cover looking new.

CABINET

Inspect your cabinet for any gouges or items stuck on the cabinet like chewing gum. Remove all foreign objects and fill in the gouges with any type of quick hardening wood putty. Sand to ensure the surface is smooth. Wipe the outside of the old cabinet clean. Remember the reason you are converting your old game is to have the earnings of a new game. Making your game look like a new game will increase your earnings and spark player-interest.

NOTICE

Please make sure you clean the coin mechanisms. It is important that you service them in order for this game to achieve the maximum possible earnings.

CONVERSION INSTRUCTIONS

Remove the new **"RENEGADE"**TM marquee from the kit. This new marquee provided with your kit is specifically designed for ease of handling. Place and center the old marquee on top of the new marquee. Place masking tape on the area where you intend to cut the new marquee. Using an x-acto knife score the new marquee and simply break at this score. If your old marquee is made of glass, remove the paint of the old marquee and attach the new marquee behind this glass. If your old marquee is made of plexiglass, it is recommended that new clear plexiglass be used to best provide the brilliance of your new marquee.

Remove the new **"RENEGADE"**TM monitor plexiglass from the kit. Place the center of the old monitor glass on top of the new monitor plexiglass. Place masking tape on the area where you intend to cut the new plexiglass. With your grease pencil draw a straight line to use as a cutting guide. Using the hacksaw or jigsaw cut the plexiglass down to size.

CONTROL PANEL

Remove the old control panel lexan decal, buttons and joysticks.

Place the template provided in this manual on the control panel to design the best possible positioning for your buttons, joystick and control panel instructions. A representation of joystick and button placement is provided as a guide.

Leave your 1 and 2 player start buttons where they are on the old control panel. (Use the enclosed 1 and 2 player stickers if needed.) Drill holes as needed for installation of the joystick and other buttons. Clean any burrs from around holes. Any hole that is no longer needed we suggest plugging with wood, putty or epoxy.

Cut the new **"RENEGADE"**TM lexan to the appropriate size needed to cover the panel. Leave enough lexan to wrap a small lip around the top and bottom of the panel.

Remove the backing from the **"RENEGADE"**TM lexan and apply it over the old control panel being careful to avoid air pockets.

After the lexan is securely on, with an x-acto knife or razor blade cut the holes on the control panel. Install the new joystick, buttons and any hardware that might have been removed on the control panel and tighten them down.

Attach the additional stickers marked "Right Attack", "Left Attack" and "Jump" to the control panel.

ADDITIONAL GAME PLAY INSTRUCTIONS

Your new monitor plexiglass has instructions on it. If when installing the new monitor plexiglass it becomes necessary to cut through the instructions, place the additional set of instructions on the monitor plexiglass.

WIRING PROCEDURES

INSTALLING INTERBOARD WIRING

This game comes with a color-coded 3 connector cable for easy installation. Refer to the wiring diagram included in this manual for quick connections.

Disconnect the old wiring harness from the old CPU board.

Carefully remove old circuitboards and FCC cages from the game.

Using the schematic drawings from your old game, carefully note the function of each wire.

Leaving several inches of wire from the old wiring harness at each connector, cut the wires near the game's coin door, monitor, control panel, power supply and speaker wires. Install the new wiring harness to those points following your wiring diagram. Use electrical tape or heat-shrink tubing to insulate all splices.

Install your FCC cage where the old board set was.

Mount the **"RENEGADE"**TM PCB assembly with the mounting blocks provided in the center of the FCC cage. Plug the wiring harness onto the PCB and close the cage securely. The board cage in this kit must be properly installed and terminated to ground.

Check and clean the input jack on the power supply board. Replace any burned or damaged pins.

GAME PLAY AND DIP SWITCH SETTINGS

"RENEGADE"TM has been designed with dip switches for operator-adjustable features for maximum earnings in your location. The dip switch chart provided in this manual will allow you to customize the game for your location.

If your old game was FCC verified, remove the FCC compliance label from the instruction sheet provided with the kit and affix to back of game cabinet.

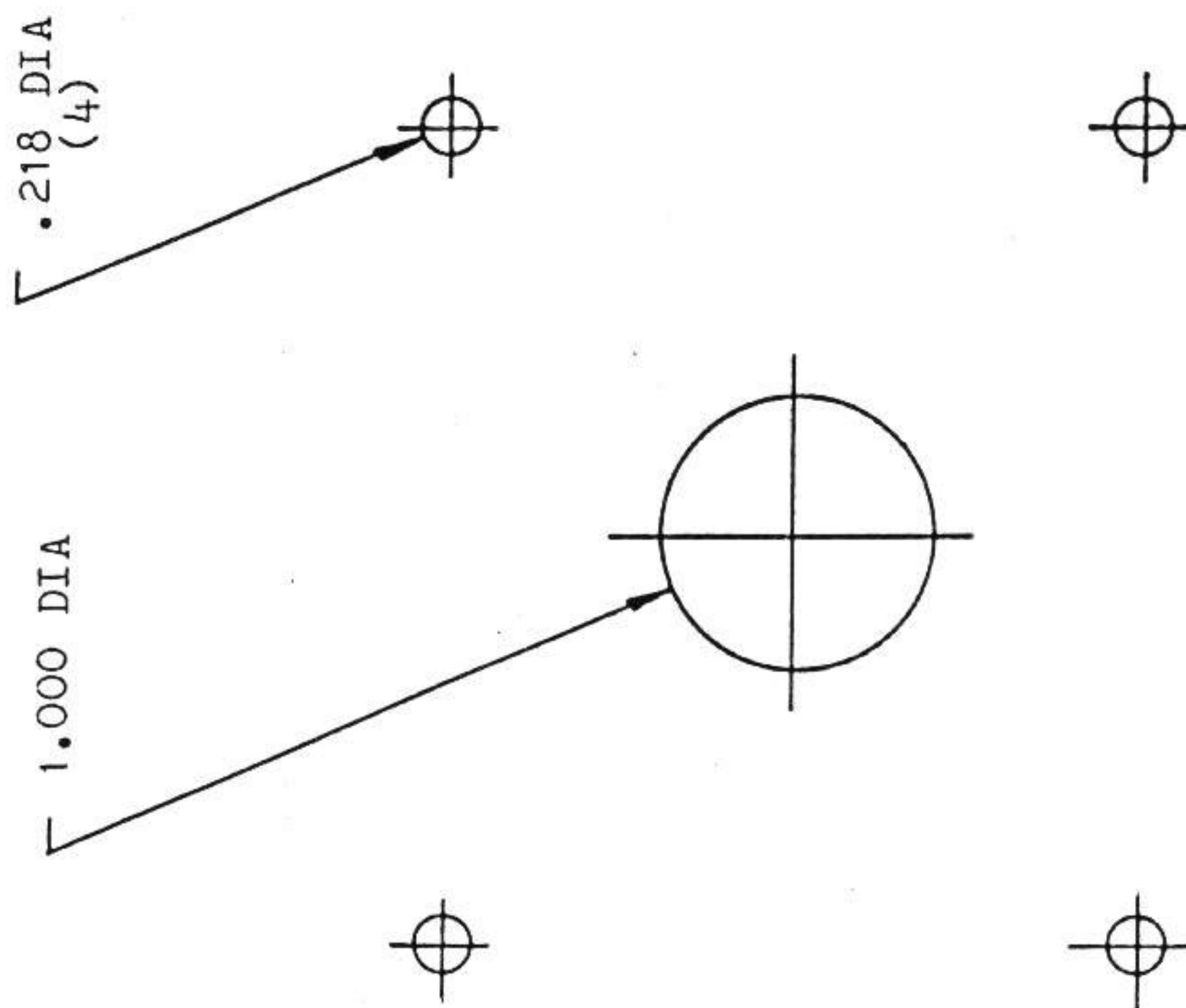
If done properly your game should look new. The conversion is complete.

WE APPRECIATE YOUR PURCHASE OF TAITO AMERICA'S
"RENEGADE"TM KIT AND SINCERELY HOPE THAT THE GAME
PROVIDES MANY HOURS OF CONTINUED EARNINGS
AND ENJOYMENT FOR YOU AND YOUR PLAYERS.

PLEASE LOOK TO TAITO AMERICA CORPORATION TO ALWAYS
PROVIDE THE VERY BEST IN VIDEO ENTERTAINMENT FOR YOU!

JOYSTICK TEMPLATE

FIGURE 3



WIRING DIAGRAM FOR " RENEGADE "™

FUNCTION	COLOR			COLOR	FUNCTION
GROUND *	BLK *	1	A	BLK *	GROUND *
		2	B		
+5 VOLTS *	RED *	3	C	RED *	+5 VOLTS *
		4	D		
-5 VOLTS *	BRN *	5	E	BRN *	-5 VOLTS *
+12 VOLTS *	YEL *	6	F	YEL *	+12 VOLTS *
		7	H		
METER 1	BLU	8	J	xxxxxxxxxxxxxx	(METER 2)
		9	K		
SPEAKER (+)	ORG	10	L	BLK/WHT	SPEAKER (-)
		11	M		
VIDEO RED	RED/BLK	12	N	GRN/BLK	VIDEO GREEN
VIDEO BLUE	BLU/BLK	13	P	WHT/BLK	VIDEO SYNC
VIDEO GROUND	BLK	14	R	xxxxxxxxxxxxxx	SERVICE
		15	S		
COIN 1	BRN/BLK	16	T	xxxxxxxxxxxxxx	(COIN 2)
1P START	GRY/WHT	17	U	BLU/WHT	2P START
1P UP	ORG/WHT	18	V	xxxxxxxxxxxxxx	2P UP
1P DOWN	RED/WHT	19	W	xxxxxxxxxxxxxx	2P DOWN
1P LEFT	BRN/WHT	20	X	xxxxxxxxxxxxxx	2P LEFT
1P RIGHT	YEL/WHT	21	Y	xxxxxxxxxxxxxx	2P RIGHT
1P L/ATTACK	VIO/WHT	22	Z	xxxxxxxxxxxxxx	2P L/ATTACK
1P JUMP	GRN/WHT	23	a	xxxxxxxxxxxxxx	2P JUMP
1P R/ATTACK	PINK/WHT	24	b	xxxxxxxxxxxxxx	2P R/ATTACK
		25	c		
		26	d		
		27	e		
GROUND *	BLK *	28	f	BLK *	GROUND *
PARTS SIDE		PIN NO.		SOLDER SIDE	

BLK-BLACK WHT-WHITE BLU-BLUE BRN-BROWN ORG-ORANGE

YEL-YELLOW GRN-GREEN VIO-VIOLET GRY-GRAY RED-RED

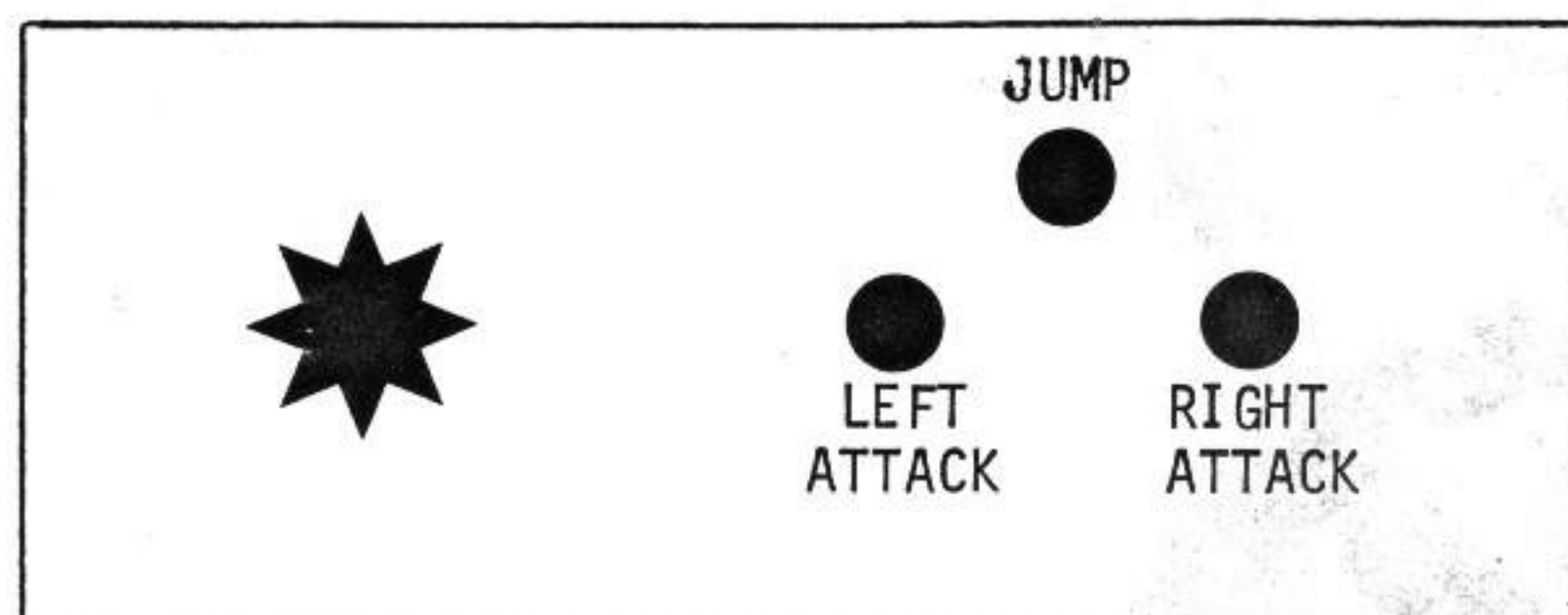
xxx/WHT DENOTES SOLID COLOR WIRE WITH WHITE STRIPE.

xxx/BLK DENOTES SOLID COLOR WIRE WITH BLACK STRIPE.

"*" DENOTES 18 GAUGE WIRE, ALL OTHERS WILL BE 22 GAUGE WIRE.

"xxxxxxxxxxxxxx" DENOTES NO WIRE INSERTED INTO CONNECTOR.

SUGGESTED CONTROL PANEL LAYOUT



RENEGADE™ KIT DIP SWITCH SETTINGS

SWITCH BANK "1"	1	2	3	4	5	6	7	8
1 COIN - 1 CREDIT	OFF	OFF	OFF	OFF				
1 COIN - 2 CREDITS	ON	OFF	ON	OFF				
1 COIN - 3 CREDITS	OFF	ON	OFF	ON				
2 COINS - 1 CREDIT	ON	ON	ON	ON				
1 CHARACTER					OFF			
2 CHARACTERS					ON			
BONUS:								
30,000 POINTS						OFF		
NO BONUS						ON		
UPRIGHT MODE							ON	
COCKTAIL MODE							OFF	
MONITOR REVERSE								OFF
								ON

SWITCH BANK "2"	1	2	3	4	5	6	7	8
EASIEST	ON	OFF						
EASY	OFF	OFF						
DIFFICULT	OFF	ON						
HARDEST	ON	ON						
NOT USED			--	--	--	--	--	--

FACTORY SETTINGS	1	2	3	4	5	6	7	8
SWITCH BANK "1"	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
SWITCH BANK "2"	OFF	OFF	--	--	--	--	--	--