

RALLY

BIKE



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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.

POWER SUPPLY

WARNING WARNING WARNING WARNING WARNING WARNING WARNING

THE POWER SUPPLY REQUIREMENTS FOR THIS CONVERSION FROM YOUR OLD GAME MUST BE CAPABLE OF +5 VDC REGULATED AT 6A AND +12 VDC REGULATED AT 1A. THESE OPERATING VOLTAGES ARE NECESSARY FOR YOUR KIT.

GAMES SUCH AS "PACMAN" AND "GALAGA" USE A POWER SUPPLY DIRECTLY ON THEIR PC BOARD ASSEMBLY:

THEREFORE THE VOLTAGE GOING DIRECTLY INTO THE PC BOARD ASSEMBLY IS 9 & 15 VOLTS AC!

!!!!!!UNDER NO CIRCUMSTANCES DIRECTLY CONNECT ANY HARNESS OF THIS TYPE INTO THE NEW BOARD SET WITHOUT MAKING NECESSARY CHANGES TO OVERCOME ANY BOARD FAILURES!!!!!!

GAME INSTRUCTIONS

Taito America Corporation's "RALLY BIKE" is the best in competition motorcycle racing. You are faced with obstacles along the way which must be challenged in order to finish and qualify for the next race.

QUALIFYING RANK

ROUND #1	SFO RACE.....	RANK 30
ROUND #2	LAX RACE.....	RANK 25
ROUND #3	***BONUS STAGE***	
ROUND #4	PHX RACE.....	RANK 25
ROUND #5	DEN RACE.....	RANK 20
ROUND #6	***BONUS STAGE***	
ROUND #7	BOS RACE.....	RANK 15
ROUND #8	N.Y. RACE	

Use the "Accel" button to accelerate. Use the "Brake" button to brake your cycle. Use the joystick to maneuver the cycle over the terrain and through the city. A helicopter will arrive that will drop "power-up" items that will assist you during the race. Capture these items for additional fuel, to increase speed, to award extra points or special helpers to destroy other bikers. Special road signs will alert you to a gas station, the goal or a railroad crossing ahead.

The game ends when you run out of fuel or do not qualify for the next race.

This manual will guide you in the conversion of your color monitor upright video game into a "RALLY BIKE" 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 "RALLY BIKE" 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.

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 composite negative sync. (These should be compatible with TTL logic levels.)

Note: "RALLY BIKE" uses a vertical monitor.

NOTICE

Be sure the power supply from your old game is capable of +5 vdc regulated at 6A and +12 vdc regulated at 1A. These operating voltages are necessary for your kit. Please note the enclosed warning with the PC Board Assembly.

TAITO AMERICA CORPORATION KIT PARTS PROVIDED

- 1-"RALLY BIKE" PC BOARD ASSEMBLY
- 1-8 WAY JOYSTICK ASSEMBLY
- 1-"RALLY BIKE" CONTROL PANEL OVERLAY
- 1-"RALLY BIKE" MONITOR BEZEL
- 1-"RALLY BIKE" MARQUEE
- 1-WIRING HARNESS (JAMMA)
- 1-INSTRUCTION SHEET WITH REMOVABLE CONTROL STICKERS
- 2-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 "RALLY BIKE" 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 "RALLY BIKE" monitor bezel from the kit. Place the bezel around the existing monitor. Using an x-acto knife trim the new monitor bezel to neatly fit around the monitor.

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 "RALLY BIKE" 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 "RALLY BIKE" 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 "Accel" and "Brake" to the control panel.

WIRING PROCEDURES

INSTALLING INTERBOARD WIRING

This game comes with a color-coded 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 diagrams 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 "RALLY BIKE" 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

"RALLY BIKE" 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. For "on screen" switch settings turn switch 7 of Dip Switch 2 ON.

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

WE APPRECIATE YOUR PURCHASE OF TAITO AMERICA'S "RALLY
BIKE" 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!

WIRING DIAGRAM FOR "RALLY BIKE" KIT HARNESS ASSY

FUNCTION	COLOR			COLOR	FUNCTION
GROUND	BLK	1	A	BLK	GROUND
GROUND	BLK	2	B	BLK	GROUND
+5 VOLTS	RED	3	C	RED	+5 VOLTS
+5 VOLTS	RED	4	D	RED	+5 VOLTS
NOT USED	BRN	5	E	BRN	NOT USED
+12 VOLTS	BLU	6	F	BLU	+12 VOLTS
KEY		7	H		KEY
COIN METER 1	BLU/BRN	8	J	WHT/VIO	COIN METER 2
		9	K		
SPEAKER (+)	WHT/BLK	10	L	BLK	SPEAKER (-)
		11	M		
VIDEO RED	RED	12	N	GRN	VIDEO GREEN
VIDEO BLUE	BLU	13	P	WHT	VIDEO SYNC
VIDEO GROUND	BLK	14	R	BRN/WHT	SERVICE
NOT USED	YEL	15	S	WHT/BRN	TILT
COIN 1	WHT/YEL	16	T	GRN/YEL	COIN 2
1P START	PNK/BLK	17	U	RED/BLK	2P START
1P UP	ORG/BLU	18	V	BRN/BLU	2P UP
1P DOWN	GRN/ORG	19	W	ORG/WHT	2P DOWN
1P LEFT	GRN/BLU	20	X	ORG/GRN	2P LEFT
1P RIGHT	RED/YEL	21	Y	WHT/ORG	2P RIGHT
1P ACCEL	RED/WHT	22	Z	BRN/BLK	2P ACCEL
1P BRAKE	WHT/RED	23	a	YEL/WHT	2P BRAKE
NOT USED	YEL/BLK	24	b	BRN/GRN	NOT USED
		25	c		
		26	d		
GROUND	BLK	27	e	BLK	GROUND
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
 PNK-PINK

NOTE: ALL WIRES 22 AWG.

FOR UPRIGHT-STYLE GAMES: USE ONLY 1P CONTROL WIRING.

FOR TABLE TOP GAMES: USE 1P & 2P CONTROL WIRING