Supplement to



Operators Manual (TM-262, 1st Printing) and Schematic Package (SP-262, 1st Printing)

This Supplement contains changes to the TX-I Operators Manual and Schematic Package. Please make the changesabditions described in this Supplement directly to your Operators Manual and Schematic Package.

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Operators Manual (TM-262) Changes

The changes below affect the Set-up information in Chanter 1

☐ Page 1-2. Change the WARNING after the first paragraph under Installation as follows:



- Pages 1-3 and 1-4. Replace the procedure beginning with step 5 under Assembling the TX-1 Cabinet with the following:
 - Adjust the two glides on the seat assembly nearest the main cabinet until the floor on the seat is level with the floor on the main cabinet.
 - Use three 2½-inch screws, fender washers, and lock washers to attach the seat assembly to the main cabinet assembly. Do not tighten these screws yet. These screws are installed through the lower seat panel into the base of the main cabinet assembly (see Figure 1-2).
 - Insert the rear end of the header assembly into the opening at the top of the main cabinet (make sure the fluorescent-light harness is pushed aside) and lower the front end of the header assembly into the top of the sert assembly.
 - From the upper access area in the back of the main cabinet assembly, use two 2-inch screws, flat washers, and lock washers to attach the rear of the header assembly to the main cabinet.
 - From underneath the header assembly, use two 2-inch screws, flat washers, and lock washers to attach the header assembly to the main cabinet.
 - 10. Use four 2-inch screws, fender washers, and lock washers to attach the header to the seat. It may be necessary to adjust the two glides at the back of the seat to align the holes in the header with those in the seat.
 - Use a %-inch hex driver to tighten all of the bolts.
 - Use two button-head screws, flat washers, and lock washers to attach the cap to the top of the seat assembly.
 - From inside the right attraction panel area of the main cabinet, pull the fluorescent light harness through the hole. Attach the fluorescent light harness connector to the header assembly harness connector.
 - 14. Ensure that all the fluorescent lights are properly installed. Plug the game into a grounded 3-wire oudet. If the fluorescent tubes light, go to step 15. If they do not light, recheck the harness connector and replace any bad fluorescent tubes.

- After you make certain that all of the fluorescent tubes are working, unplug the game power.
- 16. Place the header and main attraction-panel decals on the back of the appropriate glass panels. Position each header attraction-panel decal on the glass panel as far back toward the main cabinet as possible.
- Use cellophane tape to secure the top and bottom edges of the header and main attraction-panel decals to the back of the glass panels.
- Slide each attraction panel and decal into the groove of the header assembly.
- Place the retainers over the attraction panels.
- Use three 1%-inch button-head screws, lock washers, and flat washers to secure each retainer.
- Slide each attraction panel and decal into the lower retainer of the main cabinet assembly.
- 22. Place the upper retainers over the attraction panels.
- 23. Use three 1-inch button-head screws, lock washers, and flat washers to secure each retainer.

Allow at least 3½-inches of unobstructed space behind the game cabinet to provide adequate ventilation for the same components.

Page 1-4. Change the location references of the DIP switches under Switch Information and Selecting the Game Options as follows:

Switch 6P should be SW1 Switch 8P should be SW2.

■ Page 1-6. Change the location references in Table 1-3 Switch Settings for Coin and Credit Options, and Table 1-4 Switch Settings for Game Difficulty. Time, and Bonus Adder as follows: Switch 6P should be SW1 and is a 6-toggle switch.
Switch 6P should be SW2 and is a 6-toggle switch.

The following changes affect the Main PCB Assembly Parts List in Chapter 4.

- □ Page 4-5. Add the following power supply to the Cabinet-Mounted Assemblies parts list:
 171068-003 + 5 V Power Supply
- Page 4-25. Change the pin numbers on the connector designated CND in Figure 4-12 from pin 8 on the left to pin 1 on the left.
- Page 4-26. Change all of the 0.002 μF capacitors to 0.022 μF.
- Page 4-26. Change the following acceptable substitute part number for integrated circuits IC6 and IC7: From: 137278-100 To: 137278-003.
- ☐ Page 4-28. Change the following integrated circuit description:
 - ICl30 From: Type-74LSl61 4-Bit Counter Integrated Circuit
 To: Type-74LS04 Hex Inverter Integrated Circuit

	Page 4-28. Change the following integrated circuit part numbers:					
	• IC124	From: 3774LS266 To: 137371-001				
	• IC132	From: 137328-004 To: 136027-151				
	• IC133	From: 37-74LS266 To: 137371-001				
	• IC146	From: 137328-004 To: 136027-152				
	• IC155	From: Type-TZ0111 To: Type-TZ0110				
	Page 4-28. Add th	he following integrated circuits:				
	• IC134, IC136	Type-74LS161 4-Bit Counter Integrated Circuit	37-74LS161			
	Page 4-29. Add th	he following integrated circuits:				
	• IC160	Type-74LS373 Octal D-Type Integrated Circuit	37-74LS373			
	• IC196	Type-74LS245 Tri State Octal-Bus Integrated Circuit	37-74LS245			
	Page 4-29. Chang	ge the following integrated circuit type number:				
	• IC161	From: Type-TZ0110 To: Type-TZ0111.				
	Page 4-29. Chang • IC168	ge the following integrated circuit description: From: Type-74LS373 Octal D-Type Integrated Circuit To: Type-74LS32 OR-Gate Integrated Circuit				
	Page 4-30. Add th	he following integrated circuit:				
	• IC225	Type-74LS161 4-Bit Counter Integrated Circuit	37-74LSI61			
	Page 4-31. Add th	ne following sockets: 24-Pin Medium Insertion Integrated Circuit Socket	79-42C24			
	• IC199	24-Pin Medium Insertion Integrated Circuit Socket	79-42C24			
	Page 4-32. Add d	esignators and change the part numbers for the follow	ing miscellaneous parts:			
	• CNA, CNC	50-Circuit Header Connector	From: 179206-050 To: 179206-150			
	• CNB	60-Circuit Header Connector	From: 179206-060 To: 179206-160			
Γh	e following chan	ges affect the Graphics PCB Assembly Parts List	in Chapter 4.			
_	Page 4-34. Chang pin 1 on the left.	ge the pin numbers on the connector designated CND	in Figure 4-13 from pin 6 on the left to			
	Page 4-36. Chang	ge the following capacitor designators:				
	• From: C7–C22 To: C8–C22					
	 From: C24–C14 To: C24–C151 	9				
		integrated circuit IC1.				

Page 4-37. Change the following integrated circuit type number:					
• IC78	From: Type-12L6 To: Type-TZ0124				
Page 4-38. Change the following integrated circuit type numbers:					
• IC127	From: Type-10H To: Type-TZ0121				
• IC128	From: Type-14H4 To: Type-TZ0120				
Page 4-39. Chan	ge the following integrated circuit par	t and type numbers:			
• IC183	From: 37-74LS399 To: 137394-002				
• ICI85	From: 37-74LS399 To: 137394-002				
• IC186	From: 37-74LS374 To: 137206-001				
• ICI87	From: 37-74LS399 To: 137394-002				
• ICI96	From: Type-74SO26 To: Type-74LS245				
	From: 37-74S02 To: 37-74LS245				
Page 4-39. Add t	he following integrated circuits:				
 IC191, IC192 	RAM Integrated Circuit	137199-003			
☐ Page 4-40. Change the following integrated circuit part and type number					
• IC215, IC216	From: 37-74LS399 to: 137394-002				
• IC228	From: Type-12L6 To: Type-TZ0123				
	From: 136027-110 To: 37-74LS02				
• IC238, IC239	From: 37-74LS399 To: 137394-002				
 IC263, IC264 	From: 37-74LS399 To: 137394-002				
☐ Page 4-40. Add the following integrated circuits:					
 IC221, IC222 IC248, IC249, IC266, IC267 	RAM Integrated Circuit	137199-003			
☐ Page 4-41. Change the following resistor part number:					
• RM4	From: 118000-102 To: 118001-102				
Page 4-42. Delet	e integrated circuit IC691.				

The following change affects the Sound PCB Assembly Parts List in Chapter 4.

☐ Page 4-49. Add designator and change the part number for the following socket:

CNA 50-Circuit Header Connector From: 179206-050
 To: 179206-150

The following changes affect the Audio PCB Assembly Parts List in Chapter 4.

☐ Page 4-53. Change the following resistor value and part numbers:

• R5, R6, From: 100 To: 10

• R11,R12, R23-R24 From: 110000-010 To: 110000-100

Page 4-54. Change the following connector part numbers:

• J1, J2 From: 179037-008 To: 179014-008

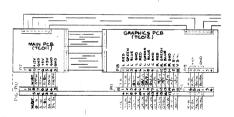
• J3 From: 179037-010 To: 179014-010

• J4 From: 179037-006 To: 179014-006

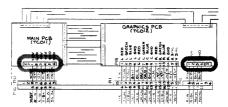
Schematic Package (SP-262) Changes

☐ Sheet 1B. Change the TX-1 Main Wiring Diagram as follows:

From:



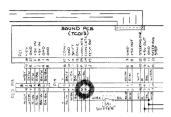
To:



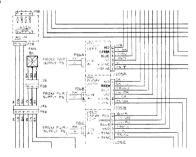
From:

		= 111
	SOUND PCB (TCO/3)	
2 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COIN- GND GND GNU P COIN-CHTR COIN-CHTR	SHD STERMOD SHD SHD STERMOD
\$2×+-w	2 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	## 84FE
67/w 67/w 67/w 68/w	W K B K A B	ESE/W R/W BK W/GN
41 - 41 41 51	# I h # 2 h J	- * E++5 - 0 # P * E
P. P	A SALE SALE	551 768

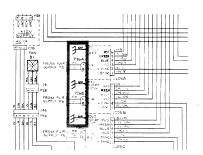
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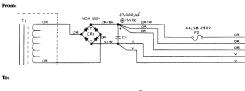
From:



To:



- \square Sheet 2A. Change resistors R5, R6, R17, and R18 from 10Ω to 1Ω .



TI OR WDA 350 (97.9% G) VVC O OR OR OR OR

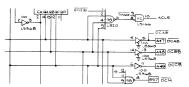
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- Add the TX-I Step-Down Power Supply Wiring Diagram included at the back of this Supplement for the Ireland-Built game.
- Sheet 2 of Main. Add resistor designations and values as follows:

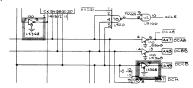
From: To:

- ☐ Sheet 2 of Main. Change the type numbers for integrated circuits IC146 and IC132 from -27128 to -2764-3.
- ☐ Sheet 5 of Main. Change the LS373 integrated circuit designation from IC168 to IC160.
- ☐ Sheet 9 of Main. Change the LSI61 integrated circuit designation from ICl30 to ICl36.
- ☐ Sheet 5 of Graphics. Change the integrated circuits as follows:

From:



To:



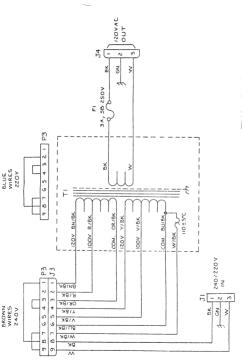
- □ Sheet 9 of Graphics. Change the type number of integrated circuit IC186 from LS374 to S374.
- ☐ Sheet 10 of Graphics. Change the 2149-2 integrated circuit designation from IC265 to IC267.
- ☐ Sheet 1 of EMI. Change the connections to P20 as follows:

From:

_		COIN F
⑤——	± C32	COIN F
©	T.01	CON SND
	T.01	SHFT J
(B)	± C34	
• —	L C35	AUX ————————————————————————————————————
	T .01	TST SWL
(i)	± 034	
⊕	I car	COIN CHER M
@	T.01	ACC.DIR.
	T 038	
(3)——	I (39	ACC. ST. ————P
(4)——	T.01	BRAKE DR-R
	T.00	
(5)—	I CAL	E
@	T.01	COIN ONTS
9	T.01	

To

_		Beconsti	
(S)	I C32	COIN1	F
(a)—	T-01	Strongssitti CON SND	
•	T .03	CONTRACT	
(8)-		SHFT	-[7]
0	± c34 + .01	No. of Contract of	
(9)	± c35	COIN S	K
~	T.01	Experience.	
@	I 036	TST SM	L.
(73)	T .01	CONCATS	m
(I)—	± C37	CONCAR	_
(E)-	1 C39	ACC.DIR	N
_	÷ :39		
(13)	T C39	ACC. ST.	—P
-	T -01		-
(a)—	± c40	BRAKE DR	R
(5)-	T.01	PRAKE ST	- 5
(3)	± 641		garage of the last
(G)—		COIN ONTH	- II (0) ii
	T-01] ²	Bourse
		1	



TX-1 Step-Down Power Supply Wiring Diagram (Ireland-Built Game)