

Supplement to



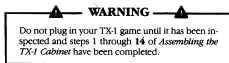
Operators Manual (TM-262, 1st Printing) and Schematic Package (SP-262, 1st Printing)

This Supplement contains changes to the TX-1 Operators Manual and Schematic Package. Please make the changes/additions described in this Supplement directly to your Operators Manual and Schematic Package.

Operators Manual (TM-262) Changes

The changes below affect the Set-up information in Chapter 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:

5. 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.
6. Use three 2 1/2-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).
7. 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 seat assembly.
8. 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.
9. 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.
11. Use a 3/16-inch hex driver to tighten all of the bolts.
12. Use two button-head screws, flat washers, and lock washers to attach the cap to the top of the seat assembly.
13. 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 outlet. If the fluorescent tubes light, go to step 15. If they do not light, recheck the harness connector and replace any bad fluorescent tubes.

15. 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.
17. 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.
18. Slide each attraction panel and decal into the groove of the header assembly.
19. Place the retainers over the attraction panels.
20. Use three 1¼-inch button-head screws, lock washers, and flat washers to secure each retainer.
21. 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.

▲ — WARNING — ▲

Allow at least 3½-inches of unobstructed space behind the game cabinet to provide adequate ventilation for the game 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 8P should be SW2.

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:
 - IC130 From: Type-74LS161 4-Bit Counter Integrated Circuit
 To: Type-74LS04 Hex Inverter Integrated Circuit

- ☐ **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.** Change the following integrated circuit part and type numbers:
- IC183 From: 37-74LS399
 To: 137394-002
 - IC185 From: 37-74LS399
 To: 137394-002
 - IC186 From: 37-74LS374
 To: 137206-001
 - IC187 From: 37-74LS399
 To: 137394-002
 - IC196 From: Type-74SO26
 To: Type-74LS245
 From: 37-74S02
 To: 37-74LS245
- ☐ **Page 4-39.** Add the following integrated circuits:
- IC191, IC192 RAM Integrated Circuit 137199-003
- ☐ **Page 4-40.** Change the following integrated circuit part and type numbers:
- 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 RAM Integrated Circuit 137199-003
 IC248, IC249,
 IC266, IC267
- ☐ **Page 4-41.** Change the following resistor part number:
- RM4 From: 118000-102
 To: 118001-102
- ☐ **Page 4-42.** Delete 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 |

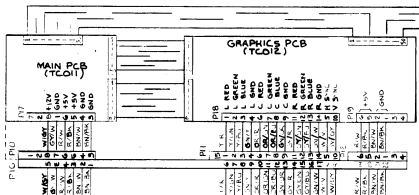
The following changes affect the Audio PCB Assembly Parts List in Chapter 4.

- ☐ **Page 4-53.** Change the following resistor value and part numbers:
- R5, R6, From: 10 Ω To: 1 Ω
R17, R18
 - 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

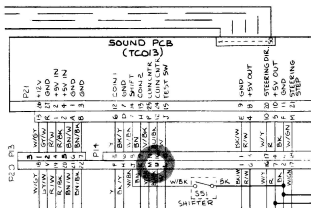
Schematic Package (SP-262) Changes

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

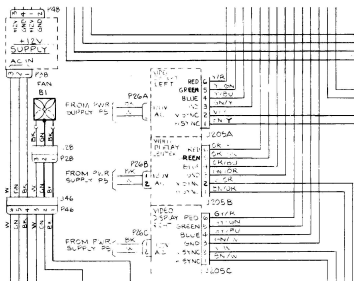
From:



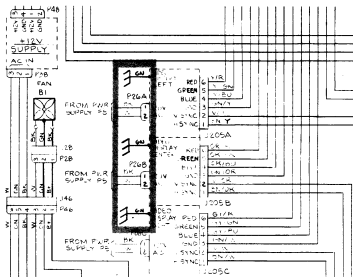
To:



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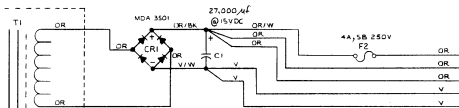


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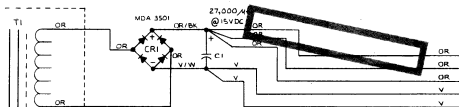


- ☐ **Sheet 2A.** Change resistors R5, R6, R17, and R18 from 10Ω to 1Ω.
- ☐ **Sheet 2B.** Change the TX-1 Power Supply Wiring Diagram as follows:

From:

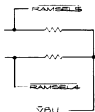


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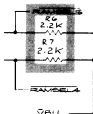


- ☐ Add the TX-1 Step-Down Power Supply Wiring Diagram included at the back of this Supplement for the Ireland-Built game.
- ☐ **Sheet 2 of Main.** Add resistor designations and values as follows:

From:

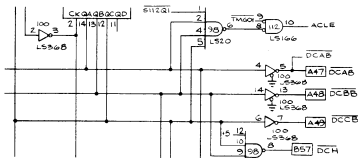


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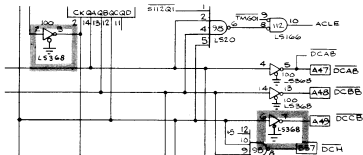


- ☐ **Sheet 2 of Main.** Change the type numbers for integrated circuits IC146 and IC132 from -27128 to -2764-3.
- ☐ **Sheet 5 of Main.** Change the LS373 integrated circuit designation from IC168 to IC160.
- ☐ **Sheet 9 of Main.** Change the LS161 integrated circuit designation from IC130 to IC136.
- ☐ **Sheet 5 of Graphics.** Change the integrated circuits as follows:

From:

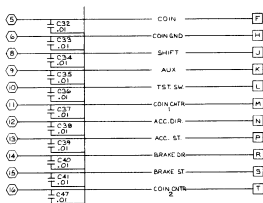


To:



- ☐ **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:



To:

