INSTRUCTION MANUAL

Service #

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## OVER DRIVE PARTS LIST

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
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<tr>
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<td>Green Start Button</td>
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<tr>
<td>30141</td>
<td>Tubular Button</td>
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<td>35201</td>
<td>ISO Trans</td>
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<td>35404</td>
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<tr>
<td>40101</td>
<td>Coin Door w/Meter</td>
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<td>40203</td>
<td>M/Bracket</td>
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<tr>
<td>40204</td>
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<tr>
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<td>Marquee Plexi</td>
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<tr>
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<td>Bezel 19&quot;</td>
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<td>Button Plate</td>
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<td>S/Contra Corner Post</td>
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<td>DC Harness C/Door</td>
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<td>DC Harness Speaker</td>
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<td>DC Harness Main</td>
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<td>789011E</td>
<td>DC Harness C/Panel</td>
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<td>AC Harness Monitor</td>
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<td>AC Harness Switch</td>
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<tr>
<td>789901</td>
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<td>789902</td>
<td>Gear Shift Unit</td>
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<td>789903</td>
<td>Foot Pedal</td>
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<td>789653</td>
<td>Steering Spring</td>
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<tr>
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<td>Accl. Spring</td>
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<tr>
<td>789655</td>
<td>Steering Pot</td>
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</table>
Over Drive Runs A Self Test Automatically When Turned On!

Do Not Touch The Steering Wheel When Turning Game On!

During self test the Over Drive C.P.U. checks the steering unit for proper alignment. If the steering wheel is not aligned properly, the game will not continue! The message VOLUME ERROR will appear on screen. Next to volume error will be a number. This number must be adjusted between 70 and 90. The ideal adjustment is 80.

See Page 6

OVER DRIVE DOESN'T UTILIZE DIP SWITCHES!

All DIP switch information is held in EPROM. See manual test list page for game set up.

See Page 5
**POWER SUPPLY WIRING & COLORS**

9 Pin Connector — DC Output for Circuit Board
- Pin 1 thru 3 — +5V/Red
- Pin 4 thru 6 — Ground/Black
- Pin 7 — -5V Not Used
- Pin 8 — +12V/Yellow
- Pin 9 — Not Used

3 Pin Connector — AC Output for ISO Transformer
- Pin 1 — AC Line/Brown
- Pin 2 — AC Ground/Green
- Pin 3 — AC Neutral/Blue

4 Pin Connector — for On/Off Switch
- Pin 1 — AC Line from Power Cord/Brown
- Pin 2 — AC Neutral from Power Cord/Blue
- Pin 3 — AC Line to Power Supply/White
- Pin 4 — AC Neutral to Power Supply/Black

*NOTE:* Colors of wire may change after connectors
OVER DRIVE MANUAL TEST LIST

MANUAL TEST

(1) How to start
Press TEST SWITCH inside the cabinet.

(2) Test items
Following are the pages of TEST MODE. Press TEST SWITCH to go on to the next page.
   1. ROM CHECK
   2. SCREEN CHECK
   3. COLOR CHECK
   4. CONTROL READ CHECK
   5. SOUND CHECK
   6. DIPSWITCH CHECK
   7. LAMP CHECK
   8. OPERATION CHECK
   9. RECORD CHECK
  10. MODE CHANGE

(3) How to return to game mode.
Select GAME MODE at the MODE CHANGE page. Use START SWITCH to select and press TEST SWITCH.

(4) Operation of each check item
  ① ROM CHECK
     • "NOW CHECKING" ... ROMs are being checked.
     • "MASK ROM OK" ... All the character and sound D/A ROMs are OK.
     • "MASK ROM BAD" ... Check sums of all the ROMs are displayed and faulty ROMs are shown as "BAD."

     - Press TEST SWITCH for next check.
  ② SCREEN CHECK (Picture distortion)
     • Adjust focus, alignment, size, etc. using the cross-hatch screen.
     - Press TEST SWITCH for next check.
  ③ COLOR CHECK
     • Adjust color brightness.
     - Press TEST SWITCH for next check.
  ④ CONTROL READ CHECK
     • Check gear lever, accelerator, brake pedal and all the switches to see "1" when switching ON.
     • Adjust steering wheel volume level to show the figure between 70H and 8FH.
     - Press TEST SWITCH for next check.
  ⑤ SOUND CHECK
     • Turn steering wheel to call next sound code.
     - Press TEST SWITCH for next check.
  ⑥ DIPSWITCH CHECK (Game set-up)
     • This game does not utilize DIP SWITCHES as the other KONAMI games do. Game set-up can be done on this page.
     • Press START BUTTON to move cursor on the screen and turn steering wheel to modify setting.
     - Press TEST SWITCH for next check.
To Adjust Steering:
IE: VOLUME ERROR

Remove the 5K potentiometer bracket, adjust volume level of the 5K pot. to 80. Align gears and remount the pot. bracket.

43-0035-00—M-10 Nut
43-0034-00—M10 Lock-Washer
50-8056-00—5K Potentiometer
50-8120-00—Gear, Pot. Shaft
50-8187-00—Main Shaft
50-8084-00—Key
50-8027-00—Hub
43-0036-00—M12 Lockwasher
50-8082-00—M12 Nut
95-8030-00—Screws
50-8031-00—Cap
F/3—Spoke
50-8125-00—Wheel
3—Spoke
50-8130-00—Bearing
50-8143-00—Spring
50-8161-00—Bearing
50-8145-00—Rubber Stop
50-8121-00—Gear, Main Shaft

Steering Unit Manufactured By

HAPP CONTROLS, inc.
Manufacturer of Electronic Controls
708-593-6130
USER INFORMATION WARNING

F.C.C. Regulations requires user to attach the F.C.C. warning label on the back of your video game cabinet.

THIS EQUIPMENT COMPLIES WITH THE REQUIREMENTS IN PART 15 OF FCC RULES FOR A CLASS A COMPUTING DEVICE. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA MAY CAUSE UNACCEPTABLE INTERFERENCE TO RADIO AND TV RECEPTION REQUIRING THE OPERATOR TO TAKE WHATSOEVER STEPS ARE NECESSARY TO CORRECT THE INTERFERENCE. THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

KONAMI

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