## SERVICE <br> MANUAL <br> AND PARTS LIST



## CISCO HEAT TECHNICAL DATA

Power Requirements:
100 v AC Japanese Specification
110 v AC USA Specification
$220 / 240 \mathrm{v}$ AC European Specification

Weight:
320 kg Approximate
704 lbs Approximate
Dimensions:
1,760 mm Height
69.25 inches Height (Approx.)
$1,950 \mathrm{~mm}$ Depth
76.75 inches Depth (Approx.)

| 920 mm | Width |
| :--- | :--- |
| 36.2 inches | Width (Approx.) |

## WARNING

## SERVICE PERSONNEL

Danger, be sure to remove power supply to the machine before commencing servicing. This machine is fitted with high-power motors and moving parts.

Take extreme care when servicing and testing.

> CABINET DESIGN, SPECIFICATIONS AND GAME PROGRAM ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTIFICATION
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Attention specifications are subject to change without prior notification. If this machine is rebuilt or altered in any way without prior written consent from the manufacturer, then Jaleco Ltd. holds no responsibility for whatever loss or damages might be incurred including injury or the loss of life.

To avoid danger at such times as when an authorised serviceman needs to inspect or examine the machine, without fail cut the power beforehand by turning the power switch to the off position.

2-1 Care in installation: This machine is for use indoors. The following locations are not suitable.

1. Outdoors
2. In places where there is exposure to rain, leaks, or direct sunlight. In addition damp or humid places, dusty places or near a heat source. Places of high temperature or places where the formation of dew is possible.
3. To ensure safety, before operation this machine must be placed in a location with an emergency exit, and a fire extinguisher must be nearby.
4. This machine must not be placed on an unstable surface or one which is prone to shaking. In addition, an incline or any other surface which is not flat can not be used.
5. This machine must not be placed near dangerous, inflammable materials or volatile chemicals.

2-2 Care during transport:

1. Please take care during transport so that no excessive shocks are incurred by the machine.

2-3 Care in operation:
3. To ensure that this machine functions properly it must be connected directly to a wall or power outlet, and not to an extension outlet with other machines running off it. This machine can only be used with either $\{220-240 \mathrm{v}$ (or above) $5 \mathrm{~A}\}$ or $\{100-110 \mathrm{v}$ (or above) 10 A$\}$ currents.

If there is not a sufficient supply of electricity, then the machine's performance will not be stable which could lead to problems.
2. Please make sure that the machine's power cord is attached firmly to the wall outlet or extension cord, of the proper gauge, and grounded.
3. Before disconnecting the power cord you must first turn off the power switch.
4. It is dangerous to pull the power cord out even for a second while the machine is on.
5. Pease make sure that the power cord is placed in a secure manner so as to avoid being tripped over or being exposed to dangerous elements such as rain or water.
6. Please only use those fuses which meet the current electrical standards for this machine.
7. When disconnecting the power cord please be sure to pull the plug and not the power cord.

(1) Place the front cabinet assembly over the base cabinet assembly. Now (as shown in the diagram) align and slide the two together so that the holes for the angle joints are aligned. At this time you may open door $E$ and begin connecting the wiring from the base cabinet to the front cabinet.
(2) Now firmly join the front and base cabinet assemblies together by means of the metal angle frames $A$ and $B$ (there are two for each side) once these are in place insert all 22 (machine screw, button head, hexagon socket $\mathrm{m} 8 \times 20$ ) into the angle frames and tighten.
(3) Place the roof cabinet assembly over the base cabinet assembly and join it with both the front cabinet and the base cabinet. Now secure the cabinets together by attaching the 6 wing bolts ( $\mathrm{m} 8 \times 35$ ), along with the spring and flat washers. Once this is done, door A may be opened and e PCB unit can be installed.
(4) Now the base cover (rubber skirt attached) may be fitted into place and secured by using the 9 shoulder bolts.


| NUMBER | CONNECTING COMPONENT | CONNECTER TYPE |
| :---: | :---: | :---: |
| J 1 | TV Monitor-AC 100V | Amp Mate-N-Lok 2p |
| J 2 | TV Monitor-power Signal | Amp Power 6p |
| J 10 | Steering And Shock Motor-power | Amp Power 2p |
| J 13 | Steering Assembly | Amp Power 12p |
| J 14 | Accel/brake Assembly | Amp Power 4p |
| J 15 | Coin Selector | Amp Power 6p |
| J 16 | Service Switch | Amp Power 9p |
| J 17 | Coin Counter | Amp Power 3p |
| J 27 | Patrol Light-signal | Amp Power 3p |
| J 28 | Patrol Light-AC 100V | Amp Mate-N-Lok 2p |

(1) Please wire the machine based on the above diagram.
(2) This machine has been fitted with 6 adjusters. After placing the machine in the desired location, please reposition the height of the adjusters so that the casters will be 5 mm above the ground. This will help keep the machine level. (If the space between the floor and the caster is too small, then the machine might move during its operation which could be dangerous.)
(3) Please make sure that the front cabinet and the roof cabinet can not slip or move once fitted in position.

The player's car, located screen centre, races in a dead heat through the streets of San Francisco. A thrilling, against-the-clock American police race awaits all those who dare to take the challenge. This race will come alive through realistic handling, drift, and intense shock absorber rebounds. More than ever before the quickly paced speed and solid body feel of Cisco Heat will bestow a true-to-life feel on its riders. This is all made possible by the 3d-like graphics which realistically display sudden right angle curves and drift. All this and more can be found in this exciting new racing machine.

Accelerator :

Brake :

Steering wheel :

Shift :
Horn:

When you insert a coin in the coin slot the start button will flash. If you want the game to start immediately then push the start button; otherwise the game will start automatically after the opening ceremony.

The player can select between a powerful, large American car with quick acceleration or a small European sports type. At the beginning of the aame the player can make his selection by turning the steering wheel and pressing the accelerator. Also during the "time up" the player gets a chance to select a car.

| Stage 1 | Golden Gate Bridge | To | Fisherman's Wharf |
| :--- | :--- | :---: | :--- |
| Stage 2 | Fisherman's Wharf | To | Union Square |
| Stage 3 | Union Square | To | Moscone Centre |
| Stage 4 | Moscone Centre | To | Twin Peaks |
| Stage 5 | Twin peaks | To | Treasure Island |

n

HOW TO PLAY

CONTROLLING INSTRUMENTS

If the player has not passed a stage's goal or check point before the timer turns to zero, the game will end.

BASIC<br>MAINTENANCE

REMOVING OR ADJUSTING THE DRIVE UNIT (LEFT AND RIGHT MOTION)

A) REMOVAL:

Open base cabinet door B, observe the drive unit (see diagram). Remove the 3 hexagon bolts ( $\mathrm{m} 8 \times 25$ ). Loosen wing bolt ( $\mathrm{m} 6 \times 30$ ) which stops the lever from moving. As shown below, the lever will fall forward once it is loosened.
Finally, separate the rubber roller from the roller guide, and the drive unit can be removed from the base cabinet.

B) HOW TO CHANGE THE RUBBER ROLLER:

First remove stop screws $m 5 \times 15$ ( 3 pieces) from the middle of the roller stopper and then tighten bolt $\mathrm{m} 8 \times 25$ which is fixed to the drive shaft. As you tighten the bolt, the rubber roller will gradually slip off the drive shaft.


MAINTENANCE AND ADJUSTMENT OF THE GEAR UNIT (BACK AND FORTH MOTION)

1. Remove the base cover (rubber skirt attached) and then remove the bolts which hold the front cabinet in position. Slide the front cabinet forward. This will provide free access to the gear unit assembly.
2. The $V$ belt and the motor brushes can now be changed easily.
3. In order to change the $V$-belt first loosen the hexagon bolts m 8 x 30 ( 4 pieces) located on the side of the gear unit. Next loosen the tension adjustment bolt im6x20. Now the V-belt can be removed. After replacing the $V$-belt be sure to tighten the bolts in the reverse order - first the tension adjustment bolt $m 6 \times 20$ and then the hexagon bolts $\mathrm{m} 8 \times 30$ ( 4 pieces). Now as shown below please test and adjust the tension of the V-belt. Using the tension adjustment bolt, tighten or loosen the belt so that it can only be pressed down 1-1.5 cm with your finger.


## ATTENTION

 ${ }^{\pi}$4. First remove both phillips hexagon head bolts $\mathrm{m} 4 \times 20$ (2 pieces) which are attached to the potentiometer bracket. Next dislodge the potentiometer while the wires are still connected. Now if the set screw, hexagon socket cup point $m 4 \times 6$ ( 1 piece) is taken out the potentiometer can be completely removed. When installing the new potentiometer, after the wiring is completed but before the potentiometer is actually inserted, please run a check with the "test mode i/o switch." Rotate the shaft and if a high pitched tone is heard then set the potentiometer's value to ( 80 h ). Now insert the potentiometer into the potentiometer bracket and secure it with the set screw, hexagon socket cup point m4x6 (I piece). Once again run a check with the "test mode i/o switch" to re-confirm the potentiometer's value. If there is a little slippage please make the necessary fine adjustments on the wiring guide panel to normalise the potentiometer's value.

If the worm gear becomes damaged or if the cam board begins to slip etc., Please contact an authorised serviceman to initiate adjustment, repair, or replacement, and do not attempt to correct the problem yourself because a high level of technical skill is needed.


MONITOR SCREEN READINGS FOR VR ( 5 k Ohm) SETTING


1. First remove the base cover (gum skirt attached). Next remove the screws which secure the front cabinet assembly. Now slide the front cabinet assembly forward, there should be plenty of room to work.
2. In this state work can also be done on the potentiometer. (Please refer back to the gear unit diagram)
3. When detaching the potentiometer please remove the set screw, hexagon socket cup point $m 4 \times 6$ (1 piece) from cam stand $B$. When installing the new potentiometer, after the wiring is completed but before the potentiometer is actually inserted, please run a check with the "test mode i/o switch." Rotate the shaft and if a high pitched tone is heard then set the potentiometer's value to ( 80 h ). Now insert the potentiometer into cam stand $B$ and secure it with the set screw, hexagon socket cup point m4×6 (1 piece). Once again run a check with the "test mode i/o switch" to re-confirm the potentiometer's value. If there is a little slippage please make the necessary fine adjustments on the wiring guide panel to normalise the potentiometer's value. This can be done by adjusting the position of the potentiometer with a 2 mm hex wrench. Once again check the potentiometer value and make the necessary adjustment.

If the cam board begins to slip etc..., Please contact an authorised serviceman to initiate adjustment, repair, or replacement, and do not attempt to correct the problem yourself because a high level of technical skill is needed.


MONITOR SCREEN READINGS FOR VR ( 5 k Ohm) SETTING

> 7 BH 7 CH 7 DH 7 EH 7 FH 80 H 81 H 82 H 83 H 84 H 85 H STANDARD VALUE

CAM UNIT MAINTENANCE AND SERVICE

HOW TO
REMOVE THE
PC GAME BOARD

1) First open door $A$ at the cabinet's rear. Then remove all 5 stopping screws ( $\mathrm{m} 4 \times 10$ ) from the PCB game cover.
2) Make the following disconnections before removing the PCB.

| NUMBER | BOARD NUMBER | NOTES |
| :--- | :---: | :---: |
| CN303 (4P) | CH9073 (TOP) | POWER SOURCE |
| CN305 (56P) | CH9073 (TOP) | SIGNAL |
| CN306 (44P) | CH9073 (TOP) | SIGNAL |
| CN103 (6P) | CH9071 (MIDDLE) | POWER SOURCE |
| CN105 (5P) | CH9071 (MIDDLE) | MONITOR OUTPUT |
| 6 CN1 (9P) | CH9074 (COMMUNICATION BOARD) | COMMUNICATION |
| CN203 (4P) | CH9072 (BOTTOM) | POWER SOURCE |

(1) 1 and 2 are interchangeable.
(2) Except for numbers 1 through 7 please do not remove the connecters.
(3) If you remove wing bolt ( $\mathrm{m} 5 \times 20$ ) from the PCB board, the PCB can be - disconnected from the case.


First open door E which is located to the rear of the front cabinet assembly (wood stop screws). Next remove all the hexagon nuts $m 8$ (4 pieces) which are holding the steering unit in place. During removal be careful not to sever the wiring which is connected to the start sw, race sw lamp and sw unit etc.


Adjust the steering potentiometer to the proper value using the $1 / 0$ test monitor.

1. First loosen screw $A$ and adjust the meshing of the gear teeth.
2. Adjust the gears so that there is a 0.1 mm to 0.3 mm space between them.
3. Now run the i/o mode test on the monitor.
4. Next loosen screw $B$ and when you hear a high pitched tone by turning the steering wheel, set the potentiometer to a value of (VR 80H).


## STEERING POTENTIOMETER ADJỤSTMENT

HORN SWITCH ADJUSTMENT

ACCELERATOR AND BRAKE REMOVAL AND ADJUSTMENT


First loosen screw $C$ and move the horn switch up and down and to the left and right so that the switch lever will be positioned in the centre of the hom shaft.

When pushing the horn button, adjust the spacing between the micro switch and the lever as shown in the diagram.

MONITOR SCREEN READINGS FOR HANDLE SETTING

$$
\begin{gathered}
7 \mathrm{BH} 7 \mathrm{CH} 7 \mathrm{DH} 7 \mathrm{EH} 7 \mathrm{FH} 80 \mathrm{H} 81 \mathrm{H} 82 \mathrm{H} 83 \mathrm{H} 84 \mathrm{H} 85 \mathrm{H} \\
\\
\text { STANDARD VALUE } \\
\quad \text { Normal Range } \longrightarrow
\end{gathered}
$$

Remove all 4 machine screws, button head hex socket $M 6 \times 20$ from the floor of the front cabinet. (Please refer back to the steering unit diagram for further information)

If the accelerator/brake unit is detached from the floor of the front cabinet assembly, then the position of the micro switch, located on the side bracket, can be adjusted by first loosening the "micro sw position adjustment screws" m3x16 (2 pieces).
Accelerator Is on when the accelerator lever is touching the very front of the nubber
stopper.

Brake $\quad$| After the brake lever touches the rubber stopper and in addition |
| :--- |
| suppresses the rubber stopper, braking should commence. Please |
| adjust the position of the micro switch so that braking will start only |
| when the rubber stopper is suppressed by the brake lever. (lf the |
| player's foot is only resting on the brake pedal, then the brake will not |
| be on.) |




If for whatever reason this machine has suffered a power surge which has switched off the breakers, then most likely all power to the machine will be cut. When this happens please check the breaker switches as shown below. The electric current can be reinstated by simply pushing back in the "popout" type breaker buttons.

Only reinstate the breakers after the cause of the power surge has been eliminated.
st remove the top cover from the upper part of the front cabinet assembly.
Next loosen the wood screws $4 \times 10$ ( 3 pieces) from the stopper panel and lift up the stopper panel so that the monitor screen filter can be slid out.

Now by holding the bracket panel, located at the bottom, gently slide the monitor screen filter up a little ways and then pull it in the direction of the driver's seat. In this, way the whole filter screen and bracket panel should be easily dislodged.

Before replacing the monitor screen fitter in the same manner that it was removed, please be sure that the bracket panehis attached.


POWER SOURCE UNIT

HOW TO REMOVE THE MONITOR SCREEN FILTER

FRONT CABINET (TOP VIEW)

## TEST, VOLUME, SERVICE SWITCHES

SERVICE SW

TEST SW

VOLUME

These controls are located inside the coin entry door. (see diagram)


Service switch: for use in servicing the coin counter, and to enable the operator to increase the number of credits without affecting the coin counting mechanism

Test switch: this switch is to be used when the operator wants to run a check on the game's systems. A more detailed explanation can be found in the "test mode" section of this manual.

Volume adjustment: these two switches will regulate the volume of the right and left speakers.


1. VERTICAL POSITIONING ADJUSTS THE VERTICAL POSITIONING OF THE MONITOR'S IMAGE
2. VERTICAL HOLD

ADJUSTS THE VERTICAL TRACKING
3. VERTICAL SIZE

ADJUSTS THE VERTICAL SIZE OF THE IMAGE
4. HORIZONTAL PHASE

HORIZONTAL HOLD
6. HORIZONTAL SIZE

ADJUSTS THE HORIZONTAL POSITIONING OF THE MONITOR'S IMAGE

ADJUSTS THE HORIZONTAL TRACKING
ADJUSTS THE HORIZONTAL SIZE OF THE IMAGE (USE A HEXAGON SCREW DRIVER TO MAKE ADJUSTMENTS)
7. BRIGHT

ADJUSTS THE BRIGHTNESS OF THE IMAGE
8. B. GAIN
9. G. GAIN
10. R. GAIN
11. B. BIAS
12. G. BIAS
13. R. BIAS

PCB
CONNECTOR INFORMATION

CH9073


CH9072


CH9071


CH9074


## CREDIT SWITCH SETTINGS FOR USA

DIP Switch \#SW301 Board No: CH-9073
(ROM CH 9071-1 Checksum E60F)

| COIN SHUTE 1 | CREDIT | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | OFF | OFF | OFF |  |  |  |  |  |
| 1 | 2 | ON | OFF | OFF |  |  |  |  |  |
| 1 | 3 | OFF | ON | OFF |  |  |  |  |  |
| 1 | 4 | ON | ON | OFF |  |  |  |  |  |
| 2 | 1 | OFF | OFF | ON |  |  |  |  |  |
| 3 | 1 | ON | OFF | ON |  |  |  |  |  |
| 4 | 1 | OFF | ON | ON |  |  |  |  |  |
| FREE PLAY |  | ON | ON | ON |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| COIN SHUTE 2 | CREDIT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | 1 |  |  |  | OFF | OFF | OFF |  |  |
| 1 | 2 |  |  |  | ON | OFF | OFF |  |  |
| 1 | 3 |  |  |  | OFF | ON | OFF |  |  |
| 1 | 4 |  |  |  | ON | ON | OFF |  |  |
| 2 | 1 |  |  |  | OFF | OFF | ON |  |  |
| 3 | 1 |  |  |  | ON | OFF | ON |  |  |
| 4 | 1 |  |  |  | OFF | ON | ON |  |  |
| FREE PLAY |  |  |  |  | ON | ON | ON |  |  |
| THESE SWITCHES MUST ALWAYS BE OFF |  |  |  |  | OFF | OFF |  |  |  |

## CREDIT SWITCH SETTINGS FOR EUROPE

DIP Switch \#SW301 Board No: CH-9073
(ROM CH 9071-3 Checksum C8DC)

| OIN SHUTE 1 | CREDIT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | OFF | OFF | OFF |  |  |  |  |  |
| 1 | 2 | ON | OFF | OFF |  |  |  |  |  |
| 1 | 3 | OFF | ON | OFF |  |  |  |  |  |
| 1 | 4 | ON | ON | OFF |  |  |  |  |  |
| 1 | 5 | OFF | OFF | ON |  |  |  |  |  |
| 1 | 6 | ON | OFF | ON |  |  |  |  |  |
| 1 | 7 | OFF | ON | ON |  |  |  |  |  |
| 2 | 3 | ON | ON | ON |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| COIN SHUTE 2 | CREDIT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | 1 |  |  |  | OFF | OFF | OFF |  |  |
| 1 | 2 |  |  |  | ON | OFF | OFF |  |  |
| 1 | 3 |  |  |  | OFF | ON | OFF |  |  |
| 1 | 4 |  |  |  | ON | ON | OFF |  |  |
| 2 | 1 |  |  |  | OFF | OFF | ON |  |  |
| 3 | 1 |  |  |  | ON | OFF | ON |  |  |
| 4 | 1 |  |  |  | OFF | ON | ON |  |  |
| 5 | 1 |  |  |  | ON | ON | ON |  |  |
| FREE PLAY (Otherwise set both switches OFF) |  |  |  |  |  |  |  | ON | ON |

PLAY CONTROL SWITCH SETTINGS

1. To control the colour of the players car, the degree of difficulty and other functions connected with the game, set the switches as detailed in the chart below to your personal

|  | CREDIT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Players | 1 Red | ON | ON |  |  |  |  |  |  |
| Car | 2 Blue | OFF | ON |  |  |  |  |  |  |
| Colour | 3 Yellow | ON | OFF |  |  |  |  |  |  |
| Control | 4 Green | OFF | OFF |  |  |  |  |  |  |
| Degree | Normal |  |  | OFF | OFF |  |  |  |  |
| of | Demanding |  |  | ON | OFF |  |  |  |  |
| Difficulty | Expert |  |  | ON | OFF |  |  |  |  |
|  | Novice |  |  | ON | ON |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Player | Dies |  |  |  |  | OFF |  |  |  |
|  | Lives |  |  |  |  | ON |  |  |  |
| Sound | On |  |  |  |  |  | OFF |  |  |
| During Demo | Off |  |  |  |  |  | ON |  |  |
| Screen | Japanese |  |  |  |  |  |  | OFF |  |
| Language | European |  |  |  |  |  |  | ON |  |
|  |  |  |  |  |  |  |  |  | OFF |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

2. : Switch No:8 must be set to the OFF position otherwise the game will not function correctly.
3. When connecting one or more machines together ensure that all machines are fitted with the optional Com-Link PCB CH9074.

Set the DIP SW1switch settings on the Com-Link PCB CH9074 as follows to ensure perfect operation of linked machines.

|  | 1 | 2 | 3 | 4 |
| :--- | :---: | :---: | :---: | :---: |
| Master Machine | ON |  |  | ON |
| All Other Machines | OFF |  |  | ON |
| Machine 1 |  | ON | ON | ON |
| Machine 2 |  | OFF | ON | ON |
| Machine 3 |  | ON | OFF | ON |
| Machine 4 |  | OFF | OFF | ON |

Please run the following tests to confirm that your machine is working correctly. These tests will assure you that the wiring, and switches are correctly adjusted. In addition, the monitor's screen colour and the sound adjustment can be checked.

If the coin chute door is opened and the 'Test Switch' is pressed, the following screen will be displayed which lists each type of test that can be carried out.


ROM RAM MONITOR POSITION COLOUR BAR I/O

DIP SWITCH SOUND COMMUNICATION

Checks the ROMs and RAMs on the board A cross-hatch display for monitor adjustment A colour bar display for colour adjustment Test mode for switches, lamps, volume, motors etc.
Shows the current DIP switch settings
: Checks the sound features and the amplifier : (if connected) Checks the Com-Link system he different test headings may be selected by moving the arrow up and own with the "Start" or "Race" buttons. With the arrow aligned with the test required press the "Test Switch" again.

To exit from the test mode simply align the arrow with the "Exit" heading and press the "Test Switch" at which time the game will revert to the normal attract mode.

TEST FUNCTIONS

## Page 24

Cisco Heat Service and Parts Manual

TEST MODE sCREEN HEADINGS

ROM RAM CHECK CHECK

The following screen will be displayed when the ROM RAM check is selected. If the ROM and RAM are functioning correctly "OK" will be displayed. In the unlikely event of a fault on the ROM or RAM test then "NG" will be displayed.


This pattern will appear to aid with monitor alignment

This screen will be displayed for the colour bar check


| I/OCHECK |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| START | SW | ON | SERVICE | SW |
| RACE | SW | COIN 1 | SW |  |
| SHIFT | SW | COIN 2 | SW |  |
| BRAKE | SW | ACCELE | SW |  |
| HORN | SW | HANDLE | VR |  |
| SAFETY | SW |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

1. Check the switches, lamps, volume and motor
2. Press each switch or button in turn and check for the "ON" display beside each function.
3. Move "Shift" to high for display to change to "ON"
4. The steering wheel should revert back to a position of $80 \mathrm{H} \pm 2$ when released. (If the steering wheel reading is $80 \mathrm{H} \pm 1$ then a high pitched tone will be heard.)
5. Press the "Test Switch" again to move to the next I/O (Motors) check.

I/O CHECK LIMIT SW \& VR

TEST
PROCEDURE
U/O CHECK
UPIDOWN VR.
UP LIMIT SW.
DOWN LIMIT SW
LEFT/RIGHT VR.
LEFT LIMIT SW.
RIGHT LIMIT SW

1. UP/DOWN VR Is normal if the reading is $80 \mathrm{H} \pm 2$ in the stationary state.
2. UP LIMIT SW is normal when "ON" appears next to this display. To test this switch move the drivers seat upward by pressing the "RACE" switch until the UP LIMIT switch is activated.
3. DOWN LIMIT SW is normal when "ON" appears next to this display. To test this switch move the drivers seat down by pressing the "START" switch until the DOWN LIMIT switch is activated.
4. LEFT/RIGHT VR Is normal if the reading is $80 \mathrm{H} \pm 2$ in the stationary state.
5. LEFT LIMIT SW is normal when "ON" appears next to this display. To test this switch turn the steering wheel left until the LEFT LIMIT switch is activated.
6. RIGHT LIMIT SW is normal when "ON" appears next to this display. To test this switch turn the steering wheel right until the RIGHT LIMIT switch is activated.
7. This screen will be displayed for the DIP switch check.

ATTENTION: Only "ON" will be displayed. If the switch is off then no indication is given.


ATTENTION: DIP switch 1 will only be displayed if the Com-Link PCB is fitted.


The sound ROMs, RAMs and power amplifier is checked with this test.
If a ROM or RAM is normal then "OK" will be displayed. In the unlikely event of a failure with the ROM or RAM "NG" will be displayed.

In this test the following sequence occurs: Trolley Car Bell sound, Police Car horn sound. These sounds will play from left to right on the stereo speaker system. This is followed by a musical scale from left, right and finaly the center.

DIP SWITCH CHECK

## SOUND CHECK

# Page 28 <br> INSTALLING THE COM-LINK BOARD 

COM-LINK INSTALLATION INSTRUCTIONS

PCB CASE ASSEMBLY

CONNECTOR NUMBERS

If you have purchased the optional "Com-Link" PCB, then please follow the installation instructions detailed below.
PARTS AND TOOLS REQUIRED TO INSTALL COM-LINK PCB

|  | NAME | SPECIFICATION | NOTES | Qty |
| :---: | :---: | :---: | :---: | :---: |
| 1 | "COM-LINK" Board | No. CH9074 | For attachment to one machine | 1 |
| 2 | "COM-LINK" Cable | 5 Pin Din Cord |  | 1 |
| 3 | Phillips Screwdriver |  |  |  |
| 4 | M4 Nut Spanner |  |  |  |

1. Open door A located at the base cabinet's rear and remove all 5 screws ( $\mathrm{M} 4 \times 10$ ) to detatch the PCB case fron cover.
2. Remove wing bolt $M 5 \times 20$ from the PCB base-board. Disconnect all plugs to the PCB set (be sure to pull the plug NOT the cable).
3. To dismantle the PCB set remove the 6 hex nuts $M 4$ from the top PCB and lift off top PCB gently.
4. Attatch the Com-Link PCB CH9074 to the middle of the PCB CH9071, connecting the 34pin and 50p plugs to the PCB CH9071. Connect the 9 pin Com-Link connector to CN1.


| NUMBER |  | BOARD NUMBER | NOTES |
| :--- | :---: | :---: | :---: |
| CN303 (4P) | 1 | CH9073 (TOP) | POWER SOURCE |
| CN305 (56P) | 2 | CH9073 (TOP) | SIGNAL |
| CN306 (44P) | 3 | CH9073 (TOP) | SIGNAL |
| CN103 (6P) | 4 | CH9071 (MIDDLE) | POWER SOURCE |
| CN105 (5P) | 5 | CH9071 (MIDDLE) | MONITOR OUTPUT |
| 6 CN1 (9P) | 6 | CH9074 (COMMUNICATION BOARD) | COMMUNICATION |
| CN203 (4P) | 7 | CH9072 (BOTTOM) | POWER SOURCE |

Only connectors 1 and 7 are interchangeable. Do not remove any other inter-PCB connectors.

The PCB boards are laid out as shown below. DO NOT disconnect the connectors which link the PCBs. (Refer to section Removal of PCBs)

## Board CH9073 TOP

## Board CH9071 MIDDLE



Board CH9072 BOTTOM


Board CH9074 COM-LINK

PCB CH9074 (Com-Link) is fastened to PCB CH9071 and linked by connectors CN2 (Com-Link) to CN107 and CN3 (Com-Link) to CN108.

PCB LAYOUT
AND
ARRANGEMENT

TESTING THE COM-LINK COMMUNICATIONS

Once the communications PCB has been installed and the inter-machine cables connected, it is possible to test the com-link system via the selftest program installed in the Cisco Heat.

COMMUNICATIONS CHECK

CAR No 1
CAR No 2 OK
CAR No 3 NOT CONNECTED
CAR No 4 : WAITING

## CAM UNIT ASSEMBLY



CAM UNIT
PARTS LIST

1 MB9001-20119 CAM BRACKET
2 MB9001-30266 SWITCH BRKT
3 MB9001-40319 CAM STAND A
4 MB9001-40320 CAM STAND B
5 MB9001-40321 CAM ARM
6 MB9001-40322 WIRE GUIDE LR
7 MB9001-40323 CAM
8 MB9001-40324 ARM BRACKET
9 MB88004-40083 SW PLATE A
10 MB9001-40284-1
WIRE
11 MB9001-40283-1
VR PLATE
12 80F-1008
BEARING
13 RBL6D
ROD END
14 VX-016-1A3
MICRO SWITCH
15 EWS-UOAS25E53
VR 5KOHIM B
16 ETW-9
E-WASHER
$20 \quad 3 P 3 \times 10$
$213 P 3 \times 15$
$223 P 4 \times 10$

23 SW6
WASHER
$24 \mathrm{M} 4 \times 6$
GRUB SCREW
25 M6 X 15

26 M6

# DRIVE UNIT ASSEMBLY 

DRIVE UNIT ASSY PARTS LIST

1 MB9001-10055-1 DRIVE BRKT
2 MB9001-30227-1 DRIVE BASE
3 MB9001-30228-1 DRIVE SHAFT A
4 MB9001-30229-1 DRIVE SHAFT B
5 MB9001-4Q272 BEARING BRKT A
6 MB9001-40271 BEARING BRKT B
7 MB9001-30267 BEARING GUIDE
8 MB9001-30286 LEVER
9 MB9001-40347 LEVER COLLAR
10 MB9001-30230-1 PULLEY 48T

11 MB9001-40275
PULLEY 12T
12 MB9001-30226 RUBBER ROLLER
13 MB9001-40273 ROLLER STOPPER
14 MB9001-40330 COLLAR
15 MB9001-40276 UP BRACKET
16 MB9001-40277 LOW BRACKETL
17 MB9001-40327
LOW BRACKET R
18 MB9001-40325
ROD BASE
19 MB9001-40280 MOTOR NUT
20 MB9001-40328
SPRING BRACKET

21 MB9001-40329
ROD
22 MB9001-40331 SPRING D
23 MB9001-40326 SPRING GUIDE
24 DMW-180T DC MOTOR
25 30F-1415 BEARING
266005 ZZ BEARING
276204 ZZ BEARING
28 225L TIMING BELT
$29 \mathrm{KEY} 6 \times 6 \times 25$ KEY
30 KEY $4 \times 4 \times 20$ KEY


## DRIVE UNIT ASSEMBLY



TOP LIGHT ASSY PARTS LIST

1 MB9001-20128 TOP LIGHT BASE
2 MB9001-20129 TOP LIGHT COVER
3 MB9001-20130 T/L BASE BRKT
4 MB9001-30288 TOP LIGHT PANEL
5 MB9001-30289 TOP LIGHT BRKT
6 G30E17C 110V 20W LAMPS
7 F-T01
LAMP HOLDER
TP3 X 12
SCREW
9
TP3 X 6
SCREW
10 TP3 X 20
SCREW
11 TP4 X 15
SCREW
12 M6 X 25
SCREW
13 PW6
WASHER
14 FN6
NUT

## TOP LIGHT ASSEMBLY



## SHIFT ASSEMBLY



SHIFT ASSY
PARTS LIST

1 MB88004-30065 SHIFT SEL. STICKER
2 MB88004-40055
SHIFT RUBBER
3 MB88004-40056
SHIFT COVER
4 MB88004-40057
SHIFT SPRING
5 MB88004-40058
SHIFT SHAFT
6 MB88004-40059
SW POST SH
7 MB88004-40060 COVER GUIDE A
8 MB88004-40061
COVER GUIDE B
9 MB88004-40062 SW BRACKET
10 MB88004-40063 SHIFT ARM
11 MB88004-40064 SHIFT LEVER
12 MB88004-30066 SHIFT PANEL
13 MB88004-40065 SHIFT BRKT A
14 MB88004-40029 SHIFT BRKT B
15 MB88004-40066 SHAFT COVER
16 SHIFT KNOB No4
17 MR636ZZ
BEARING
18 80F-1008
BEARING
19 AH7158261 MICRO SWITCH
2307
2409
25 PW10
26 PW8
27 PW6
28 PW5
29 SW4
30 SW6
31 FN6
32 M4
$33 M 6 \times 20$
$343 P 4 \times 25$
$353 \mathrm{P} 4 \times 10$
$36 \quad 3 P 5 \times 10$
37 3P3 $\times 8$
$38 \quad 3 \mathrm{P} 3 \times 15$

## ACCELERATOR ASSY

 PARTS LIST1 MB9001-10059 MAIN BRACKET 2 MB9001-20111-1 PEDAL ARM
3 MB9001-30237-1 BRAKE PEDAL
4 MB9001-30238-1 ACCEL. PEDAL
5 MB9001-20118 FRONT PLATE
6 MB9001-40287 BRACKET
7 MB9001-40290
SWITCH BRKT MB9001-40289-1 SPRING MB88004-30084 STOPPER BRKT
10 MB88004-40124 BS BRACKET
11 MB88004-40126 ACCEL. SHAFT
12 MB88004-40125 SHAFT PIPE A
13 MB88004-40129 SHAFT PIPE B
14 MB88004-40128 SW. PIPE
15 D2MV-01L-1C3 MICRO SWITCH
16 EH 1001
17 EH 1002
RUBBER STOP 80F-1410 BEARING
19 AH7158261
MICRO SWITCH

## ACCELERATOR ASSEMBLY



## MOVING BASE ASSEMBLY



MOVING BASE ASSY
PARTS LIST

1 MB9001-10057-1
MOVING BASE
2 MB9001-20110
MOVING GUIDE
3 MB9001-30233
STOPPER BRKT
4. MB9001-20108

ROLLER BRKT
5 MB9001-40233
ROLLER SHAFT
6 70W-1615
7 MGH-65
ROLLER
8 EH-1002
RUBBER STOP
9 M8

15 2P $6 \times 15$
$16 \mathrm{M} 8 \times 50$
17 M8 X 20
18 SW8
19 M8

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GEAR UNIT ASSY PARTS LIST

1 MB9001-10056-1 GEAR BASE
2 MB88004-30235-1 PULLEY FR
3 MB88004-30235-1 LIMIT PLATE FR

4 MB88004-30236-1 FR ARM
5 MB88004-40279-1 MOTOR GUIDE
6 MB880041-40281 MOTOR PULLEY
7 MB88004-40282-1 FR CAM
MB88004-40283-1
VR PLATE
9
MB88004-40284-1 WIRE
10 MB88004-40285 WIRE GUIDE
11 MB88004-40286-1 VR BRKT
12 MB88004-40318 WASHER M
13 MB88004-40280 MOTOR NUT
14 MB88004-40083 SWITCH PLATE A
15 DMW-180J
DC MOTOR
ZA50-1/60

17 VX-016-1A3
MICRO SW
EWS-UOAS25E53
VR 5KOHM
3 3 $3 \times 10$
$2 \mathrm{P} 3 \times 15$
$2 \mathrm{P} 3 \times 15$
3P $4 \times 20$
M $45 \times 15$
M4X6
M5 $\times 8$
$146 \times 20$
$18 \times 30$
$198 \times 15$
M12 X 40

## GEAR UNIT ASSEMBLY



## CHAIR UNIT ASSEMBLY



TH
CHAIR UNIT ASSY PARTS LIST

1 MB9001-10058-1 CHAIR BASE
2 MB9001-10060-2 CHAIR BRKT
3 MB9001-10061-1 SHIFT BOX
4 MB9001-30243-1 ROD BRKT A
5 MB9001-30273 CHAIR ROD
6 MB9001-30274 COVER NUT S
7 MB9001-30275 COVER NUT
8 MB9001-30276 COVER S
9 MB9001-30277 COVERL
10 MB9001-40298 ROD A
11 MB9001-40299-1 ROD STOPPER
12 MB9001-40300 ROD BRKT B
13 MB9001-40301 ROD BRKT C
14 MB9001-40337
COLLAR B
15 MB9001-40338
COLLAR C
16
17 BLLP 3J BEARING
18 NHS 12T ROD END
19 EH 10003 STOPPER
20 KA-25
21 MB9001-30290
COVER BRKT S
22 MB9001-40350
WOOD S
$\begin{array}{ll}26 & M 3 \times 12 \\ 27 & M 4 \times 10 \\ 28 & S T W-8 \\ 29 & S W 6 \\ 30 & M 6 \times 18 \\ 31 & \text { SW8 } \\ 32 & \text { PW8 }\end{array}$
.CONTINUED




BASE CABINET hSE MF90001-10010-1




FRONT CABINET Assy MF90001-10013-


## PCB Set for ${ }^{x}$ Cisco Heat

The 4-piece PCB Set (basic PCB set) is composed of:
CH-9071
CH-9072
CH-9073
BR-8957 (not shown)
plus such Flat Cables, Wiring Harnesses, and Studs that are needed only to put together the first 3 pieces as illustrated below:

PCB Stud A (6 pcs.) PCB Stud B (6 pcs.) PCB Stud A ( 6 pcs.) - $f=$


COM-LINK PCB CH-9074 is an optional accessory, and it must be ordered in addition to the basic PCB set when Cisco Heat machines are to be com-linked to one another for simultaneous racing.

## Power Transformer

The secondary side (output) is AC 18 V 2A, 9.5 V 3 A .

## Switching Regulator

The secondary side (output) is max. 100W, DC 5V 13A, 12V 2 A .

SETTING THE DIP SHITCHES FOR EUROPE

## PRICE SETTING:

DIP SWITCH \#SW301 (BOARD NO. CH-9073)

|  | COIN | CREDIT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 1 | OFF | OFF | OFF |  |  |  |  |  |
| COTN | 1 | 2 | ON | OFF | OFF |  |  |  |  |  |
| SLOT | 1 | 3 | OFF | ON | OFF | - |  |  |  |  |
| \#1 | 1 | 4 | ON | ON | OFF |  |  |  |  |  |
|  | 1 | 5 | OFF | OFF | ON |  |  |  |  |  |
| (RIGET EAND | 1 | 6 | ON | OFF | ON |  |  |  |  |  |
| SIDE) | 1 | 7 | OFF | ON | ON |  |  |  |  |  |
|  | 2 | 3 | ON | ON | ON |  |  |  |  |  |
|  | 1 | 1 |  |  |  | OFF | OFF | OFF |  |  |
| COIN | 1 | 2 |  |  |  | ON | OFF | OFF |  |  |
| SLOT | 1 | 3 |  |  |  | OFF | ON | OFF |  |  |
| \#2 | 1 | 4 |  |  |  | ON | ON | OFF |  |  |
|  | 2 | 1 |  |  |  | OFF | OFF | ON |  |  |
| (LEFI EAND | 3 | 1 |  |  |  | ON | OFF | ON |  |  |
| SIDE) | 4 | 1 |  |  |  | OFF | ON | ON |  |  |
|  | 5 | 1 |  |  |  | ON | ON | ON |  |  |
| FREE PLAY |  |  |  |  |  |  |  |  | ON | ON |

DIP SWITCH \#SW302 (BOARD NO. CH-9073)

|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { PLAYER'S } \\ \text { CAR } \end{gathered}$ | NO.l RED | ON | ON |  |  |  |  |  |  |
|  | NO. 2 BLUE | OFF | ON |  |  |  |  |  |  |
|  | NO. 3 YELLOW | ON | OFF |  |  |  |  |  |  |
|  | NO. 4 GREEN | OFF | OFF |  |  |  |  |  |  |
| DIFFICULTY LEVEL | EASY |  |  | ON | ON |  |  |  |  |
|  | NORMAL |  |  | OFF | OFF |  |  |  |  |
|  | HARD |  |  | ON | OFF |  |  |  |  |
|  | HARDER |  |  | OFF | ON |  |  |  |  |
| $\begin{aligned} & \text { PLAY } \\ & \text { TIME } \end{aligned}$ | NORMAL |  |  |  |  | OFF |  |  |  |
|  | UNLIMITED |  |  |  |  | ON |  |  |  |
| $\begin{aligned} & \text { SOUND IN } \\ & \text { ATTRACT' } \\ & \text { MODE } \end{aligned}$ | YES |  |  |  |  |  | OFF |  |  |
|  | NO |  |  |  |  |  | ON |  |  |
| SCREEN <br> DISPLAY | JAPANESE |  |  |  |  |  |  | OFF |  |
|  | ENGLISH |  |  |  |  |  |  | ON |  |
| CONTINUE | YES |  |  |  |  |  |  |  | ON |
|  | NO |  |  |  |  |  |  |  | OFF |

## ATTENTION:

1) SET SWITCH NO. 8 TO "OFF" DURING COM-LINK FOR "SIMULTANEOUS RACING."
2) SET SWITCH NO. 8 TO "ON" WHEN OPERATING THE MACHINE(S) INDEPENDENTLY AND WHEN "CONTINUE PLAY" IS REQUIRED
3) "COM-LINK" AND "CONTINUE" ARE DESIGNED NOT TO WORK SIMULTANEOUSLY. FAILURE TO SET SWITCH NO 8 PROPERLY, AS STATED ABOVE, WOULD RESULT IN A PROGRAM MALFUNCTION.

DIP SWITCH \#SW303 (BOARD CH-9073)

| 1 | 2 | 3 | 4 |
| :---: | :---: | :---: | :---: |
| $O F F$ | OFF | OFF | OFF |

ATTENTION:

1) SWITCH \#SW 303 IS FOR PRODUCTION USE ONLY.
2) DURING OPERATION, ALL FOUR SWITCHES SHOULD BE KEPT IN THE "OFF" POSITION.

## SETTING THE COM-LINK:

DIP SWITCH \#SWI (BOARD NO. CH-9074)

|  |  | 1 | 2 | 3 | 4 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| PLAYER'S | NO. 1 RED |  | ON | ON | ON |
|  | NO. 2 BLUE |  | OFF | ON | ON |
|  | NO. 3 YELLOW |  | ON | OFF | ON |
|  | NO. 4 GREEN |  | OFF | OFF | ON |
| MASTER MACHINE | ON |  |  | ON |  |
| ALL OTHER MACHINE (S) | OFF |  |  | ON |  |

ATTENTION:
IF THE MACHINES ARE FITTED WITH THE OPTIONAL COM-IINK PCB (CH-9074) AND IF THEY ARE COM-LINKED TO ONE ANOTHER FOR SIMULTANEOUS RACING, THEN DIP SWITCH \#SWI SHOULD BE SET AS SHOWN ABOVE.
(1) AS FOR THE "PLAYER'S CAR," \#SW1'S SETTINGS SUPERSEDES \#SW302 (CH-9073)
(2) ONE MACHINE MUST BE SELECTED AS THE MASTER MACHINE, AND ANY COLOR CAR CAN BE SELECTED AS THE MASTER MACHINE'S CAR.
(3) SWITCE NO. 8 (\#SW302) SHOULD BE SET TO "OFF."
(4) ALL MACHINES SHOULD BE SET TO THE SAME DIFFICULTY LEVEL ON \#SW302.

## HOW TO PLAY

THE PLAYER'S CAR, LOCATED SCREEN CENTER, RACES IN A DEAD HEAT. THROUGH THE STREETS OF SAN FRANCISCO. A THRILLING, AGAINST-THECLOCK AMERICAN POLICE RACE AWAITS ALL THOSE WHO DARE TO TAKE THE CHALLENGE. THIS RACE WILL COME ALIVE THROUGH REALISTIC HANDLING, DRIFT, AND INTENSE SHOCK ABSORBER REBOUNDS. MORE THAN EVER BEFORE THE QUICKLY PACED SPEED AND SOLID BODY FEEL OF CISCO HEAT WILL BESTOW A TRUE-TO-LIFE FEEL ON ITS RIDERS. THIS IS ALL MADE POSSIBLE BY THE 3D-LIKE GRAPHICS WHICH REALISTICALLY DISPLAY SUDDEN RIGHT ANGLE CURVES AND DRIFT. ALL THIS AND MORE CAN BE FOUND IN THIS EXCITING NEW RACING MACHINE.

CONTROLLING INSTRUMENTS:
ACCEL : STEP ON THIS PEDAL TO INCREASE THE SPEED OF THE PLAYER'S CAR.

BRAKE : STEP ON THIS PEDAL TO REDUCE THE SPEED OF THE PLAYER'S CAR.

STEERING WHEEL : IF YOU TURN THE WHEEL RIGHT OR LEFT, YOU CAN CHANGE THE CARS DIRECTION.

SHIFT : A CHOICE BETWEEN HIGH AND LOW GEAR.
HORN : IF PUSHED BRIEFLY, THE MUSICAL HORN IS ACTIVATED; HOWEVER, IF PRESSED FOR A LONGER TIME, THE SIREN SYSTEM IS ACTIVATED AND THE COMPUTER'S CARS WILL GIVE WAY (YIELD).

WHEN YOU PUT A COIN IN THE COIN SLOT, THE START BUTTON WILL FLASH. TO START THE GAME IMMEDIATELY, PUSH THE "START BUTTON;" OTHERWISE, THE GAME WILL START AUTOMATICALLY AFTER A FEW SECONDS.

THE PLAYER CAN SELECT BETWEEN A POWERFUL, LARGE AMERICAN CAR WITH QUICK ACCELERATION OR A SMALL EUROPEAN SPORTS TYPE. AT THE BEGINNING OF THE GAME THE PLAYER CAN MAKE HIS SELECTION BY TURNING THE STEERING WHEEL AND PRESSING THE ACCELERATOR. ALSO DURING THE "TIME UP" THE PLAYER GETS A CHANCE TO SELECT A CAR.
"CISCO HEAT'S" FIVE STAGES:

| STAGE 1 | GOLDEN GATE BRIDGE | TO | FISHERMAN'S WHARF |
| :--- | :--- | :--- | :--- |
| STAGE 2 | FISHERMAN'S WHARF | TO | UNION SQUARE |
| STAGE 3 | UNION SQUARE | TO | MOSCONE CENTER |
| STAGE 4 | MOSCONE CENTER | TO | TWIN PEAKS |
| STAGE 5 | TWIN PEAKS | TO | TREASURE ISLAND |

IF THE PLAYER HAS NOT PASSED A STAGE'S GOAL OR CHECK POINT BEFORE' THE TIMER TURNS TO ZERO, THE GAME WILL END.

