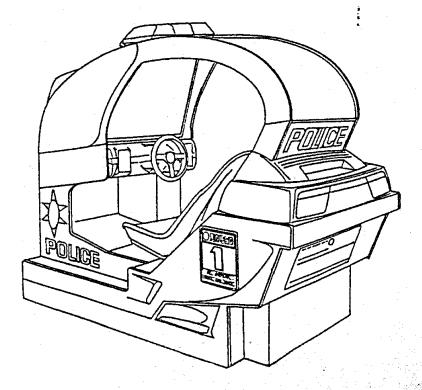
**JALECO** 



# SERVICE MANUAL AND PARTS LIST





## **CISCO HEAT** TECHNICAL DATA

Power Requirements:

100v AC Japanese Specification

**USA Specification** 110v AC

220/240v AC European Specification

Weight:

320 kg

Approximate

704 lbs

**Approximate** 

Dimensions:

1,760 mm

Height

69.25 inches Height (Approx.)

1,950 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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# INDEX

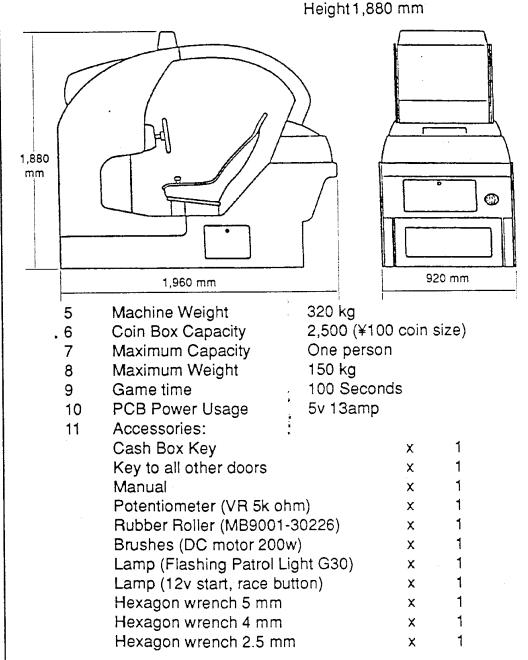
| Item   |           | Page No  |
|--|-----------|--|
| Horn Switch Adjustment Accelerator & Brake Adjustm Removing The Monitor Scree Test & Service Switches Monitor Adjustment PCB Connector Information | ardnenten | 5<br>6<br>7<br>9<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>28 |
| Parts List   |           |  |
| am Unit Assembly Drive Unit Assembly Top Light Assembly Shift Assembly Accelerator Assembly Moving Base Assembly Gear Unit Assembly Chair Assembly |           | 31<br>32<br>34<br>35<br>36<br>37<br>38<br>39   |

## **JALECO**

# Cisco Heat Service and Parts Manual

**SPECIFICATION** 

1 Power Usage AC 100/110V 5A 50/60 Hz
AC 220/240V 10A 50/60 Hz
2 Power Consumption During Game Play 400w
During Attract Mode 200w
3 Monitor 26" Colour
4 Dimensions Width 920 mm
Depth 1,960 mm



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.

# Cisco Heat Service and Parts Manual



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:
  - 1. 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 v (or above) 5A} or {100-110 v (or above) 10A} 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.

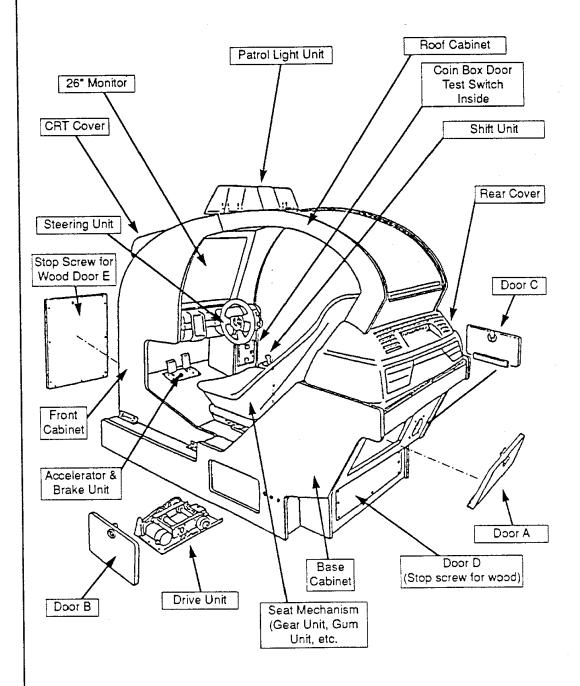
IMPORTANT ITEMS

**ATTENTION** 

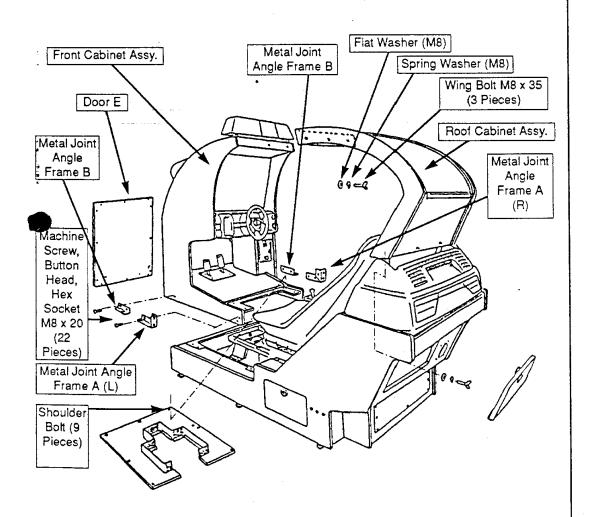
# JALECO Cisco Heat Service and Parts Manual



- 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.



- That
  - SUMMARY OF
- (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 m8x20) 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 (m8x35), along with the spring and flat washers. Once this is done, door A may be opened and 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.



# WIRING DIAGRAM

| eer TMI |                                |                   |
|---------|--------------------------------|-------------------|
| NUMBER  | CONNECTING COMPONENT           | CONNECTER TYPE    |
| J1      | TV Monitor-AC 100V             | Amp Mate-N-Lok 2p |
| J2      | TV Monitor-power Signal        | Amp Power 6p      |
| J10     | Steering And Shock Motor-power | Amp Power 2p      |
| J13     | Steering Assembly              | Amp Power 12p     |
| J14     | Accel/brake Assembly           | Amp Power 4p      |
| J15     | Coin Selector                  | Amp Power 6p      |
| J16     | Service Switch                 | Amp Power 9p      |
| J17     | Coin Counter                   | Amp Power 3p      |
| J27     | Patrol Light-signal            | Amp Power 3p      |
| J28     | 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 5mm 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.

# Cisco Heat Service and Parts Manual

**HOW TO PLAY** 

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:

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:

The computer's cars will give way (yield) when

pressed.

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 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.

Stage 1 Golden Gate Bridge To Fisherman's Wharf Fisherman's Wharf To Union Square Stage 2 To Moscone Centre Stage 3 Union Square To Twin Peaks Stage 4 Moscone Centre To Stage 5 Twin peaks 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.

CONTROLLING INSTRUMENTS

**CISCO HEAT'S FIVE STAGES** 

# JALECO Cisco Heat Service and Parts Manual

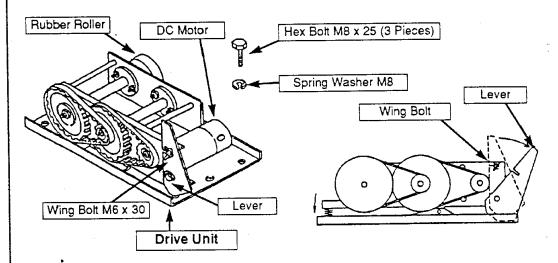
## **BASIC** MAINTENANCE

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

## A) REMOVAL:

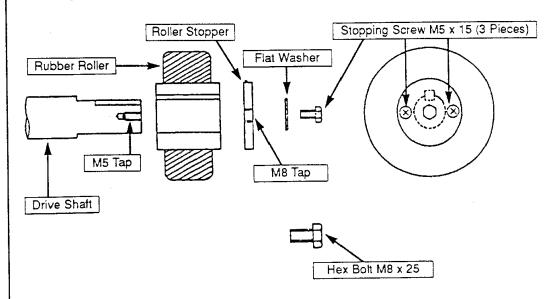
Open base cabinet door B, observe the drive unit (see diagram). Remove the 3 hexagon bolts (m8x25). Loosen wing bolt (m6x30) which stops the lever from moving. As shown below, the lever will fall forward once it is loosened.

Finally, separate the rubber roller from the roller guide, and the drive unit can be removed from the base cabinet.



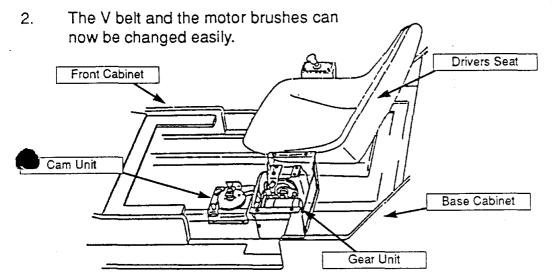
## B) HOW TO CHANGE THE RUBBER ROLLER:

First remove stop screws m5 x 15 (3 pieces) from the middle of the roller stopper and then tighten bolt m8 x 25 which is fixed to the drive shaft. As you tighten the bolt, the rubber roller will gradually slip off the drive shaft.

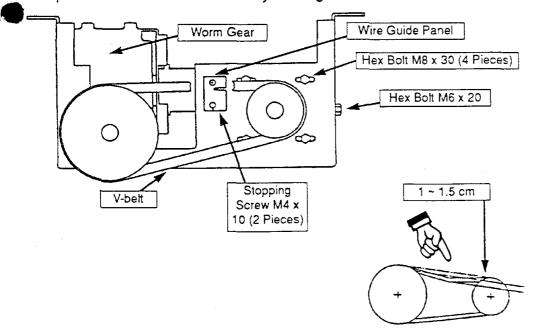


## MAINTENANCE AND ADJUSTMENT OF THE GEAR UNIT (BACK AND FORTH MOTION)

Remove the base cover (rubber skirt attached) and then remove 1. the bolts which hold the front cabinet in position. Slide the front cabinet forward. This will provide free access to the gear unit assembly.



In order to change the V-belt first loosen the hexagon bolts m8 x 3. 30 (4 pieces) located on the side of the gear unit. Next loosen the tension adjustment bolt m6 x 20. 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 m6 x 20 and then the hexagon bolts m8 x 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.



## **JALECO**

# Cisco Heat Service and Parts Manual

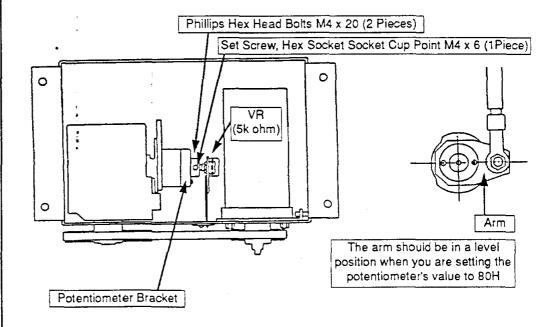


HOW TO CHANGE THE POTENTIOMETER

First remove both phillips hexagon head bolts m4x20 (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 m4x6 (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 (80h). 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.

## **ATTENTION**

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.



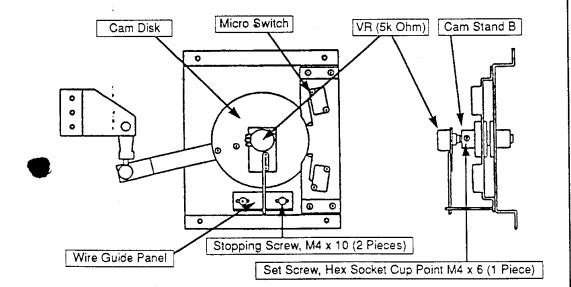
MONITOR SCREEN READINGS FOR VR (5k Ohm) SETTING

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

Normal Range

- LA CALL
- 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 m4x6 (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 (80h). Now insert the potentiometer into cam stand B and secure it with the set screw, hexagon socket cup point m4x6 (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 2mm 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 (5k Ohm) SETTING

7ВН 7СН 7DH 7EH 7FH 80H 81H 82H 83H 84H 85H STANDARD VALUE

Normal Range

CAM UNIT MAINTENANCE AND SERVICE

**ATTENTION** 

## **JALECO**

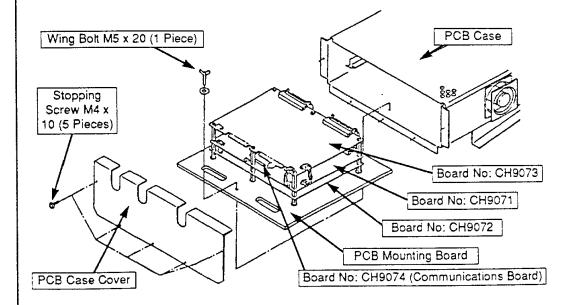
# Cisco Heat Service and Parts Manual

HOW TO REMOVE THE PC GAME BOARD

- 1) First open door A at the cabinet's rear. Then remove all 5 stopping screws (m4x10) from the PCB game cover.
- 2) Make the following disconnections before removing the PCB.

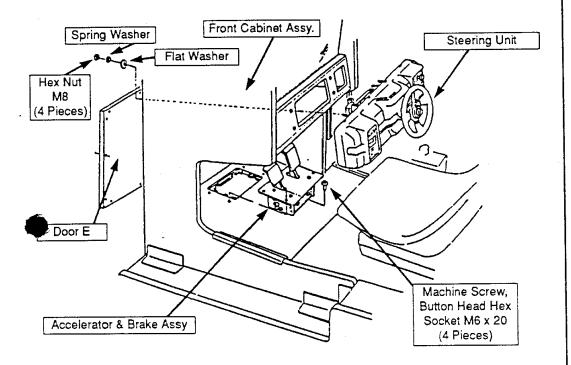
| NUMBER      | BOARD NUMBER                 | NOTES          |
|-------------|------------------------------|----------------|
| CN303 (4P)  | CH9073 (TOP)                 | POWER SOURCE   |
| CN305 (56P) | CH9073 (TOP)                 | SIGNAL         |
| CN306 (44P) | CH9073 (TOP)                 | 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 (m5x20) from the PCB board, the PCB can be disconnected from the case.



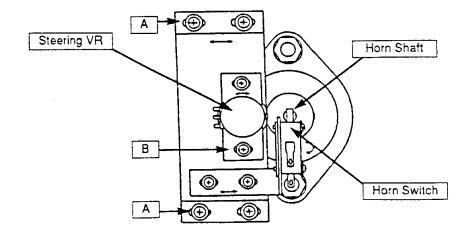
# Cisco Heat Service and Parts Manual JALECO

First open door E which is located to the rear of the front cabinet assembly (wood stop screws). Next remove all the hexagon nuts m8 (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 i/o test monitor.

- 1. First loosen screw A and adjust the meshing of the gear teeth.
- 2. Adjust the gears so that there is a 0.1mm to 0.3mm 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 UNIT REMOVAL AND **ADJUSTMENT**

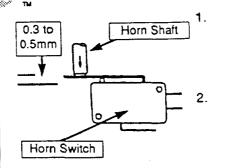
STEERING POTENTIOMETER **ADJUSTMENT** 

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## **JALECO**

# Cisco Heat Service and Parts Manual

HORN SWITCH 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 horn 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

7ВН 7СН 7DH 7EH 7FH 80H 81H 82H 83H 84H 85H

STANDARD VALUE

Normal Range

ACCELERATOR
AND BRAKE
REMOVAL AND
ADJUSTMENT

Remove all 4 machine screws, button head hex socket M6 x 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).

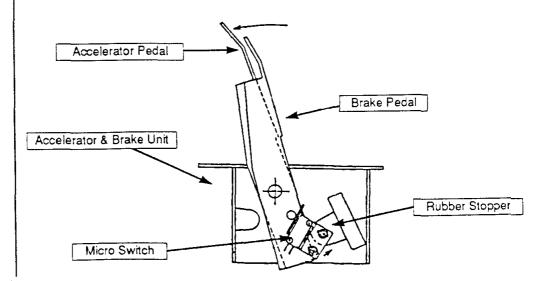
Accelerator

Is on when the accelerator lever is touching the very front of the rubber

stopper.

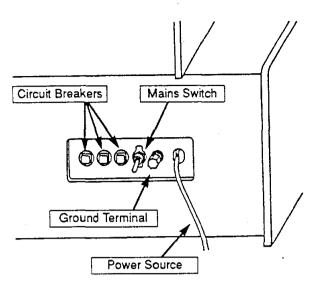
Brake

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. (If the player's foot is only resting on the brake pedal, then the brake will not be on.)



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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.

POWER SOURCE UNIT

**ATTENTION** 

HOW TO REMOVE THE MONITOR SCREEN FILTER

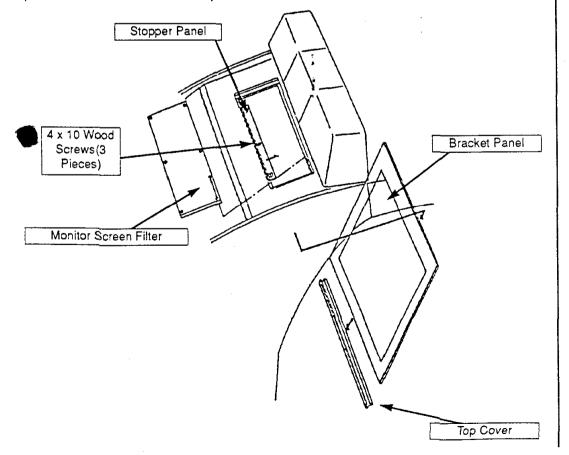
FRONT CABINET (TOP VIEW)

st remove the top cover from the upper part of the front cabinet assembly.

Next loosen the wood screws 4x10 (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.

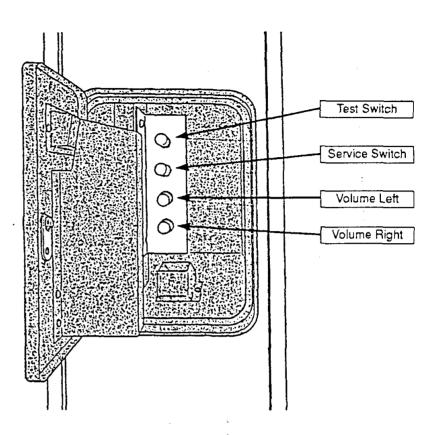
Before replacing the monitor screen filter in the same manner that it was removed, please be sure that the bracket paneLis attached.





TEST, VOLUME, SERVICE SWITCHES

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



**SERVICE SW** 

**TEST SW** 

VOLUME

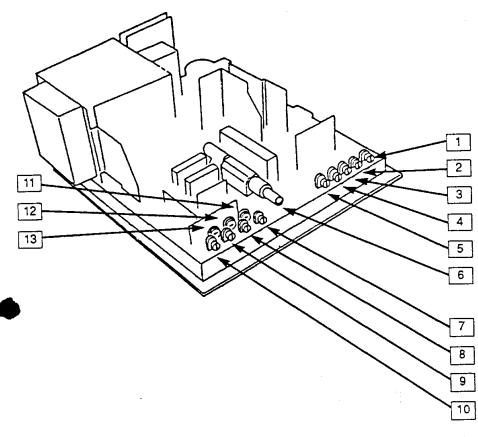
Service switch: for use in servicing the coin counter, and to enable the operator to increase the number of credits without affecting the coin counting mechanism

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.



## MONITOR **ADJUSTMENTS**



- VERTICAL POSITIONING ADJUSTS THE VERTICAL POSITIONING OF THE MONITOR'S IMAGE
- ADJUSTS THE VERTICAL TRACKING **VERTICAL HOLD** 2.
- ADJUSTS THE VERTICAL SIZE OF THE IMAGE **VERTICAL SIZE** 3.
- ADJUSTS THE HORIZONTAL POSITIONING HORIZONTAL PHASE

OF THE MONITOR'S IMAGE

- ADJUSTS THE HORIZONTAL TRACKING HORIZONTAL HOLD
- ADJUSTS THE HORIZONTAL SIZE OF THE HORIZONTAL SIZE IMAGE (USE A HEXAGON SCREW DRIVER

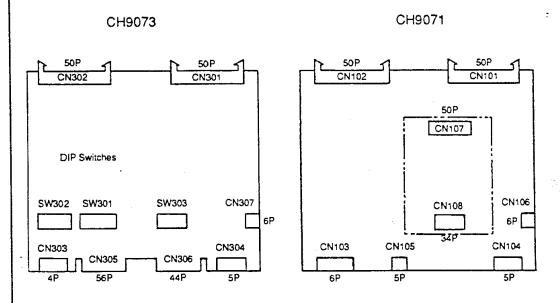
TO MAKE ADJUSTMENTS)

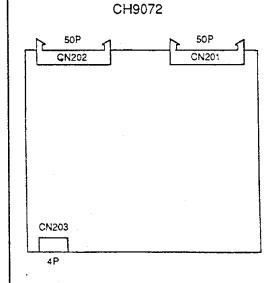
- ADJUSTS THE BRIGHTNESS OF THE IMAGE 7. **BRIGHT**
- 8. B. GAIN
- 9. G. GAIN
- 10. R. GAIN
- 11. B. BIAS
- 12. G. BIAS
- 13. R. BIAS

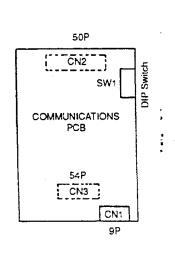
# Cisco Heat Service and Parts Manual

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PCB CONNECTOR INFORMATION







CH9074

# CREDIT SWITCH SETTINGS FOR USA

DIP Switch #SW301 Board No: CH-9073

(ROM CH 9071-1 Checksum E60F)

| COIN 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             | 02       | ON  | OFF |                               |                               |                         |   |   |
| 2                          | 1             | OFF      | OFF | ON  |                               | j                             |                         |   |   |
| 3                          | 1             | ON       | OFF | ON  |                               |                               |                         |   |   |
| 4                          | 1             | OFF      | ON  | ON  |                               |                               |                         |   |   |
| FREE PLAY                  |               | ON       | ON. | ON  |                               |                               |                         |   |   |
|                            |               |          |     |     |                               |                               |                         |   |   |
| <b>COIN SHUTE 2</b>        | CREDIT        | -        | 2   | 3   | 4                             | 5                             | 6                       | 7 | 8 |
| CONT SHOTE 2               | CREDIT        | 1        |     | ာ   |                               | _                             |                         | 1 | 0 |
| 1                          | 1             | I I      | 2   | 3   | OFF                           | OFF                           | OFF                     |   | 0 |
| 1                          | 1 2           | <b>!</b> | 2   | 3   |                               | _                             |                         | , | - |
| 1 1                        | 1             |          | 2   | 3   | OFF                           | OFF                           | OFF                     |   | 0 |
| 1 1 1                      | 1 2           |          | 2   |     | OFF<br>ON                     | OFF<br>OFF                    | OFF<br>OFF              |   |   |
| 1 1                        | 1<br>2<br>- 3 |          |     |     | OFF<br>ON<br>OFF              | OFF<br>OFF<br>ON              | OFF<br>OFF              |   |   |
| 1 1                        | 1<br>2<br>- 3 |          | 2   |     | OFF<br>ON<br>OFF<br>ON        | OFF<br>OFF<br>ON<br>ON        | OFF<br>OFF<br>OFF       |   |   |
| 1<br>1<br>1<br>1<br>2      | 1<br>2<br>- 3 |          | 2   |     | OFF<br>ON<br>OFF<br>ON        | OFF<br>OFF<br>ON<br>ON        | OFF<br>OFF<br>OFF<br>ON |   |   |
| 1<br>1<br>1<br>1<br>2<br>3 | 1<br>2<br>- 3 |          |     |     | OFF<br>ON<br>OFF<br>ON<br>OFF | OFF<br>OFF<br>ON<br>ON<br>OFF | OFF<br>OFF<br>OFF<br>ON |   |   |

## 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              | ]      | <u> </u> | ļ        | ON  | ON  | OFF |    |     |
| 2                 | 1              |        |          |          | OFF | OFF | ON  |    |     |
| 3                 | 1              |        |          | <u> </u> | ON  | OFF | ON  | i  |     |
| 4                 | 1              |        | <u> </u> |          | OFF | ON  | ON  |    |     |
| 5                 | 1              |        | <u> </u> |          | ON  | ON  | ON  |    |     |
| FREE PLAY (Otherw | ina ant hath a | witcho | - OEE    |          |     | I   | l   | ON | ON  |

**CREDIT SWITCH SETTINGS** 

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 |
|             |           |     |     |     |     |     |     |     |     |
| !           |           |     |     |     |     |     |     |     |     |

## **ATTENTION**



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
EXIT

ROM RAM MONITOR POSITION COLOUR BAR I/O 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.

DIP SWITCH SOUND COMMUNICATION Shows the current DIP switch settings Checks the sound features and the amplifier (if connected) Checks the Com-Link system

The 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 MODE** 

TEST FUNCTIONS

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

The following screen will be displayed when the ROM RAM check is

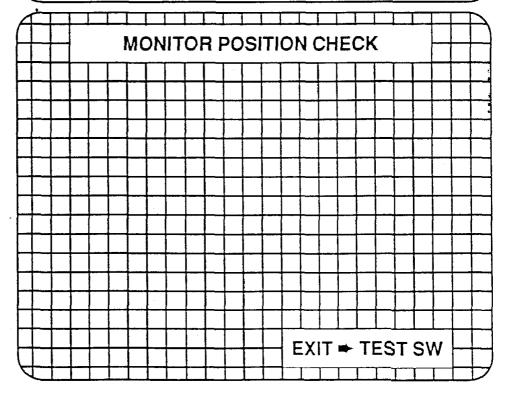
**TEST MODE SCREEN HEADINGS** 

CHECK

"NG" will be displayed. **ROM RAM** ROM BAM CHECK

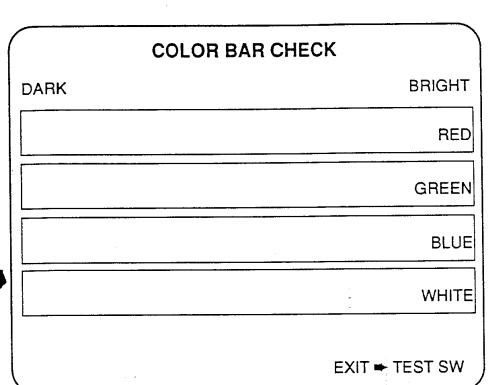
| HOM HAM CHECK |                |  |  |  |  |
|---------------|----------------|--|--|--|--|
| MAIN          |                |  |  |  |  |
| VRAM          | OK             |  |  |  |  |
| SCRATCH RAM   | OK             |  |  |  |  |
| COLOR RAM     | OK             |  |  |  |  |
| ROAD COM. RAM | OK             |  |  |  |  |
| CAR COM. RAM  | OK             |  |  |  |  |
| OBJECT RAM    | OK             |  |  |  |  |
| PROGRAM ROM   | OK             |  |  |  |  |
| ROAD          |                |  |  |  |  |
| SCRATCH RAM   | OK             |  |  |  |  |
| ATTRIBUTE RAM | OK             |  |  |  |  |
| ROAD COM. RAM | OK             |  |  |  |  |
| PROGRAM ROM   | OK             |  |  |  |  |
|               |                |  |  |  |  |
|               | EXIT ➡ TEST SW |  |  |  |  |

MONITOR **POSITION** CHECK



This pattern will appear to aid with monitor alignment

This screen will be displayed for the colour bar check



COLOR BAR **CHECK** 

I/O CHECK

|   | 1.                         | O CH | ECK   |                            |        |
|---|----------------------------|------|---|----------------------------|--------|
| START<br>RACE<br>SHIFT<br>BRAKE<br>HORN<br>SAFETY | SW<br>SW<br>SW<br>SW<br>SW | ON   | SERVICE<br>COIN 1<br>COIN 2<br>ACCELE<br>HANDLE | SW<br>SW<br>SW<br>SW<br>VR |        |
|   |                            |      | EXIT <b>→</b> T                                 | EST SV                     | ¥<br>∕ |

- 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 80H ±2 when released. (If the steering wheel reading is 80H±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** 

I/O CHECK

UP/DOWN VR. UP LIMIT SW. DOWN LIMIT SW LEFT/RIGHT VR. LEFT LIMIT SW. RIGHT LIMIT SW

EXIT → TEST SW

## TEST **PROCEDURE**

Is normal if the reading is 80H ±2 in the stationary 1. UP/DOWN VR

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 80H±2 in the stationary

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.

1. 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.

> I/O CHECK **DIP SW301** 8 3 1 DIP SW302 5 8 2 3 ON ON DIP SW1 ON ON ON ON EXIT → TEST SW

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

> SOUND CHECK SOUND ROM 1 OK OK SOUND ROM 2 OK SOUND RAM 1 SOUND RAM 2 OK EXIT ➡ TEST SW

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

# JALECO Cisco Heat Service and Parts Manual

**INSTALLING THE** COM-LINK BOARD

If you have purchased the optional "Com-Link" PCB, then please follow the installation instructions detailed below.

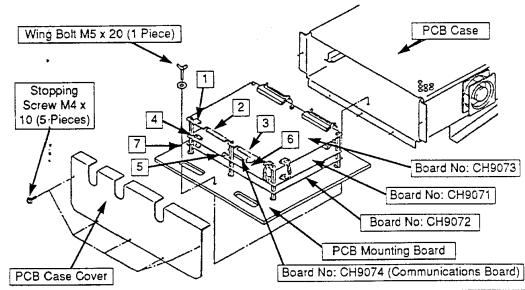
## PARTS AND TOOLS REQUIRED TO INSTALL COM-LINK PCB

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

## COM-LINK INSTALLATION INSTRUCTIONS

- 1. Open door A located at the base cabinet's rear and remove all 5 screws (M4x10) to detatch the PCB case fron cover.
- 2. Remove wing bolt M5x20 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 M4 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.

## PCB CASE **ASSEMBLY**



## CONNECTOR **NUMBERS**

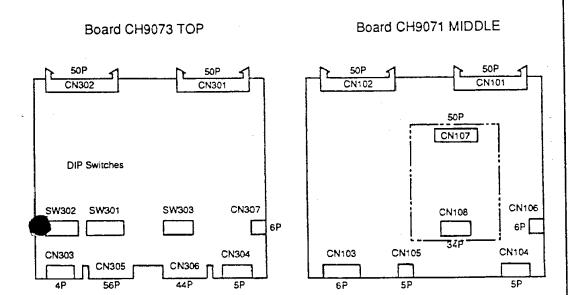
| NUMBE       | R | BOARD NUMBER                 | NOTES          |
|-------------|---|------------------------------|----------------|
| CN303 (4P)  | 1 | CH9073 (TOP)                 | POWER SOURCE   |
| CN305 (56P) | 2 | CH9073 (TOP)                 | SIGNAL         |
| CN306 (44P) | 3 | CH9073 (TOP)                 | 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.

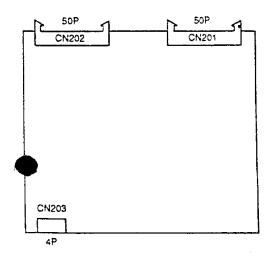
# Cisco Heat Service and Parts Manual

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

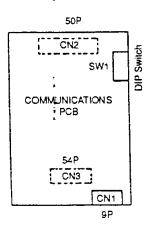
## PCB LAYOUT AND ARRANGEMENT



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.

# Cisco Heat Service and Parts Manual

# 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 self-test program installed in the Cisco Heat.

COMMUNICATIONS CHECK

CAR No 1

CAR No 2

OK

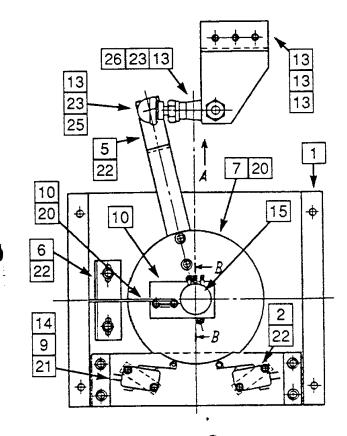
CAR No 3

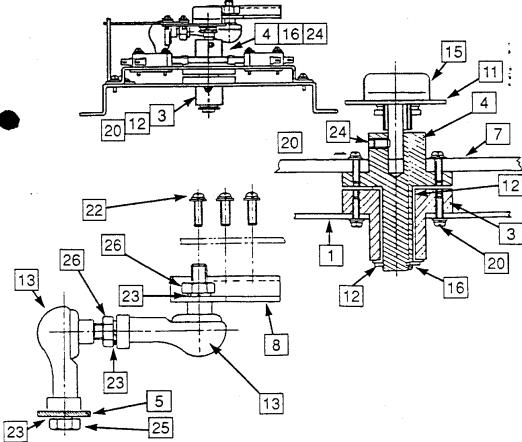
NOT CONNECTED

CAR No 4

WAITING

# CAM UNIT ASSEMBLY





## **CAM UNIT** PARTS LIST

- MB9001-20119 CAM BRACKET
- MB9001-30266 SWITCH BRKT
- MB9001-40319 CAM STAND A
- MB9001-40320 CAM STAND B
- 5 MB9001-40321 CAM ARM
- MB9001-40322 6 WIRE GUIDE LR
- 7 MB9001-40323 CAM
- 8 MB9001-40324 ARM BRACKET
- MB88004-40083 SW PLATE A
- 10 MB9001-40284-1 WIRE
- MB9001-40283-1 11 VR PLATE
- 80F-1008 BEARING
- RBL6D 13 ROD END
- VX-016-1A3 MICRO SWITCH
- EWS-UOAS25E53 VR 5KOHM B
- ETW-9 E-WASHER
- 3P 3 X 10
- 3P 3 X 15
- 22 3P 4 X 10
- SW6 WASHER
- M4 X 6 **GRUB SCREW**
- M6 X 15 25
- 26 M6



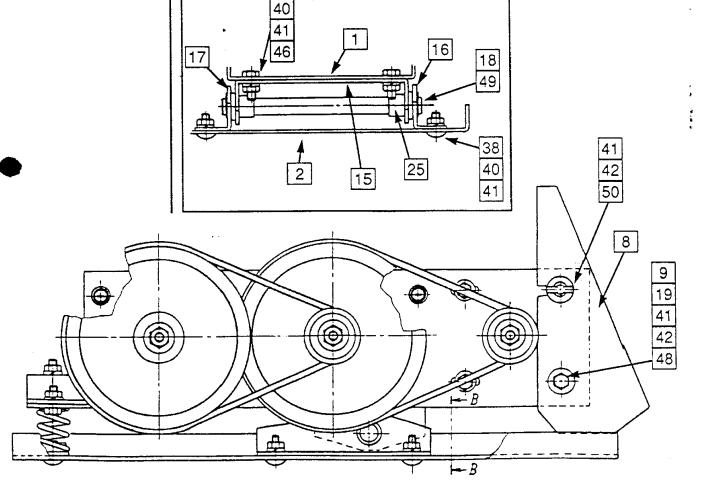
# **DRIVE UNIT ASSEMBLY**

### 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 MB9001-40272 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 BRACKET L
- 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
- 26 6005 ZZ BEARING
- 27 6204 ZZ BEARING
- 28 225L TIMING BELT
- 29 KEY 6 X 6 X 25 KEY
- 30 KEY 4 X 4 X 20 KEY

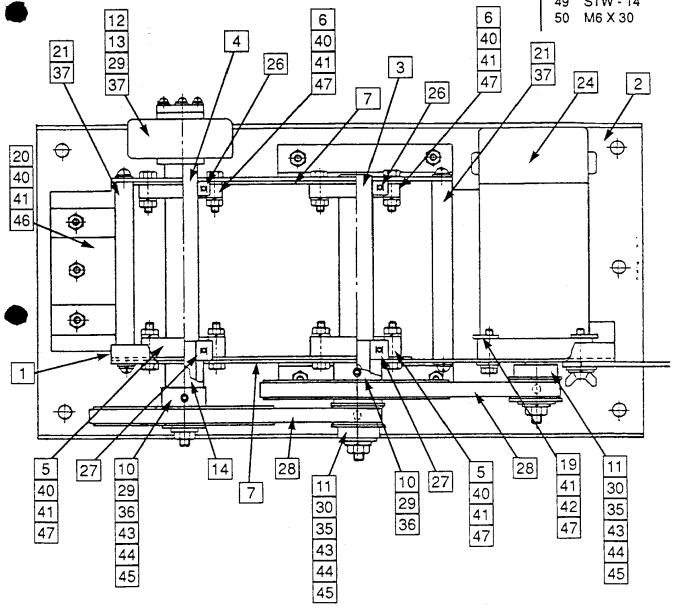


# DRIVE UNIT ASSEMBLY

## 40 41 46 40 39 23 41 42 41 40 38 23

# DRIVE UNIT ASSY PARTS LIST

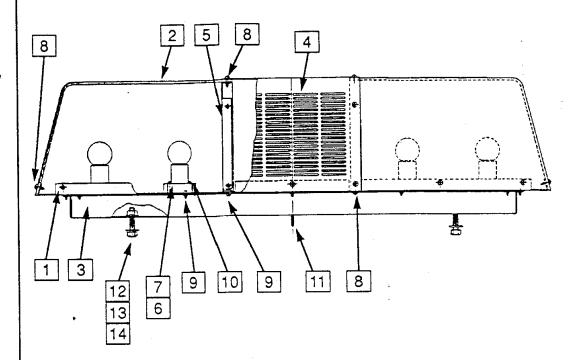
- 35 M4 X 6
- 36 M5 X 8
- 37 3P5 X15
- 38 M6 X 18
- 39 M6 X 15
- 40 N6
- 41 SW6
- 42 PW6
- 43 N8
- 44 SW8
- 45 PW8
- 46 M6 X 20
- 47 M6 X 30
- 48 M6 X 35 49 STW - 14

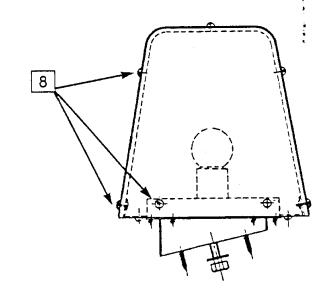


## TOP LIGHT ASSY **PARTS LIST**

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

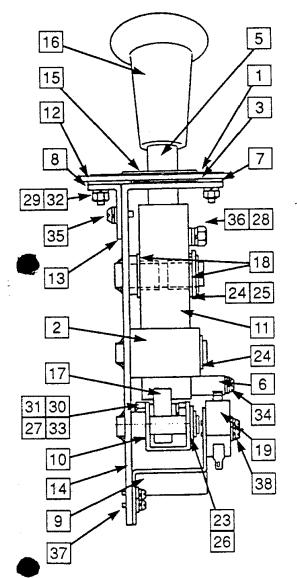
# TOP LIGHT ASSEMBLY

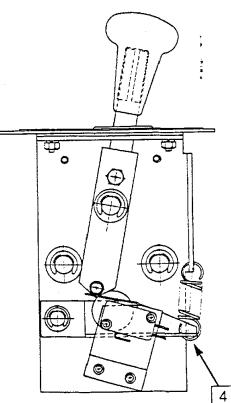






# SHIFT ASSEMBLY





## SHIFT ASSY **PARTS LIST**

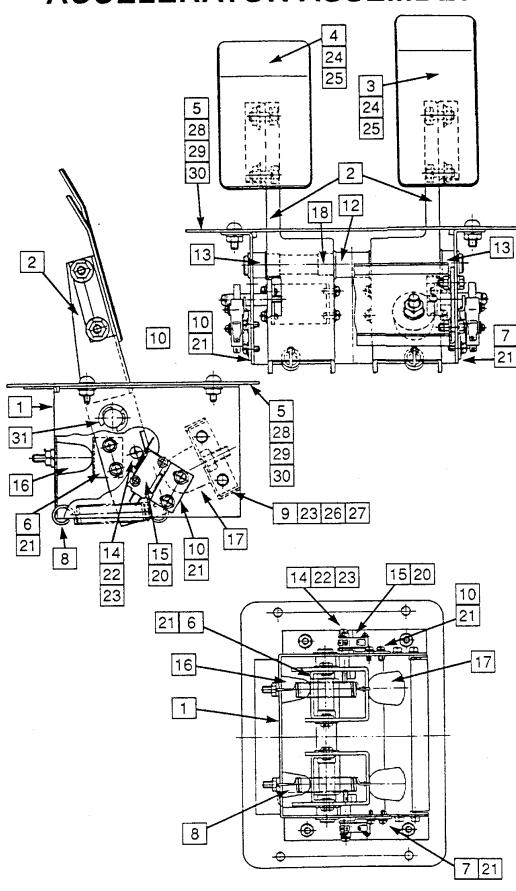
- MB88004-30065 1 SHIFT SEL. STICKER
- MB88004-40055 2 SHIFT RUBBER
- 3 MB88004-40056 SHIFT COVER
- MB88004-40057 4 SHIFT SPRING
- 5 MB88004-40058 SHIFT SHAFT
- MB88004-40059 6 SW POST SH
- 7 MB88004-40060 **COVER GUIDE A**
- 8 MB88004-40061 **COVER GUIDE B**
- 9 MB88004-40062
- SW BRACKET MB88004-40063 SHIFT ARM
- MB88004-40064 11 SHIFT LEVER
- MB88004-30066 SHIFT PANEL
- MB88004-40065 SHIFT BRKT A
- MB88004-40029 SHIFT BRKT B
- MB88004-40066 15 SHAFT COVER
- SHIFT KNOB No4 16
- MR636ZZ **BEARING**
- 80F-1008 18 BEARING
- AH7158261 19 MICRO SWITCH
- 23 07
- 24 09
- PW10 25
- PW8 26
- 27 PW<sub>6</sub>
- PW<sub>5</sub> 28
- 29 SW4
- 30 SW<sub>6</sub>
- 31 FN<sub>6</sub>
- 32 M4
- 33 M6 X 20
- 34 3P4 X 25
- 35 3P4 X 10
- 36 3P5 X 10
- 37 3P3 X 8
- 38 3P3 X 15

## **JALECO**

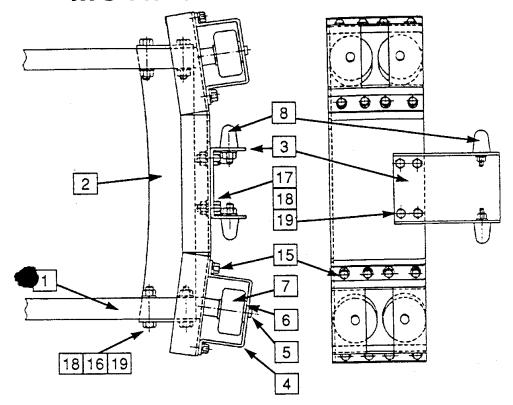
# ACCELERATOR ASSY PARTS LIST

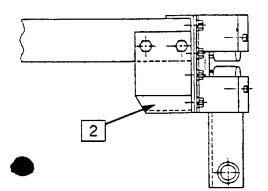
- 1 MB9001-10059 MAIN BRACKET
- 2 MB9001-20111-1 PEDAL ARM
- 3 MB9001-30237-1 BRAKE PEDAL
- 4 MB9001-30238-1 ACCEL. PEDAL
- 5 MB9001-20118 FRONT PLATE
- 6 MB9001-40287 BRACKET
- 7 MB9001-40290 SWITCH BRKT
- 8 MB9001-40289-1 SPRING
- 9 MB88004-30084 STOPPER BRKT
- 10 MB88004-40124 BS BRACKET
- 11 MB88004-40126 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 RUBBER STOP
- 17 EH 1002
- RUBBER STOP 80F-1410 BEARING
- 19 AH7158261 MICRO SWITCH
- 20 3P3 X 15
- 21 3P4X10
- 22 M 5 X 45
- 23 SW5
- 24 2P6X15
- 25 FN6
- 26 M5 X 15
- 27 FN5
- 28 M6 X 15
- 29 SW6
- 30 N6
- 31 Ø 12

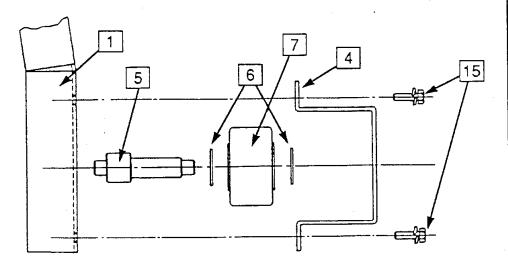
# **ACCELERATOR ASSEMBLY**



# **MOVING BASE ASSEMBLY**







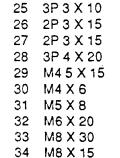
### **MOVING BASE ASSY PARTS LIST**

- MB9001-10057-1 1 MOVING BASE
- MB9001-20110 2 MOVING GUIDE
- MB9001-30233 3 STOPPER BRKT
- MB9001-20108 **ROLLER BRKT**
- 5 MB9001-40233 **ROLLER SHAFT**
- 70W-1615 6
- 7 MGH-65 ROLLER
- EH-1002 8 **RUBBER STOP**
- 9
- 15 2P 6 X 15
- M8 X 50 16
- M8 X 20 17
- SW8 18
- 8M 19

and the said . Named s

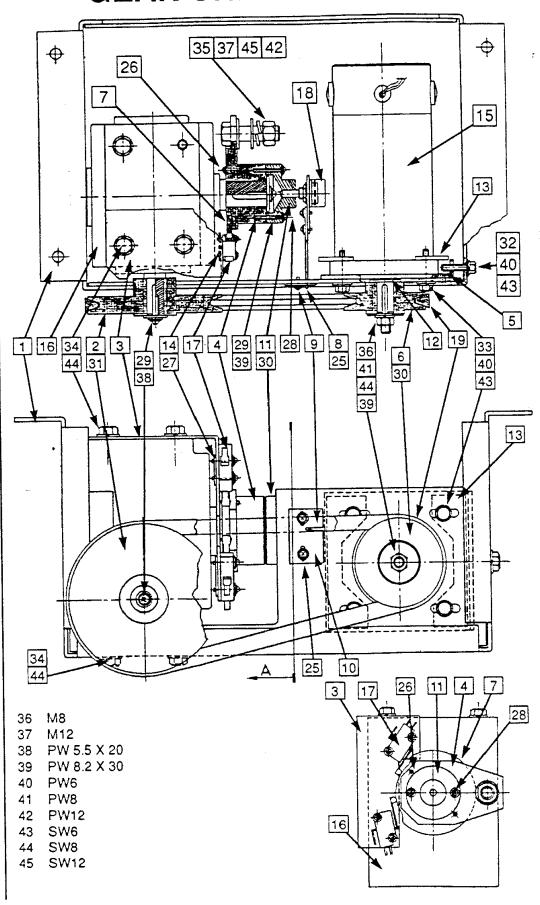
### **GEAR UNIT ASSY** PARTS LIST

- MB9001-10056-1 **GEAR BASE**
- MB88004-30235-1 2 **PULLEY FR**
- MB88004-30235-1 3 LIMIT PLATE FR
- MB88004-30236-1 FR ARM
- MB88004-40279-1 5 MOTOR GUIDE
- MB880041-40281 6 MOTOR PULLEY
- MB88004-40282-1 7 FR CAM
- MB88004-40283-1 VR PLATE
- MB88004-40284-1 9 WIRE
- MB88004-40285 WIRE GUIDE
- MB88004-40286-1 11 VR BRKT
- 12 MB88004-40318 WASHER M.
- 13 MB88004-40280 MOTOR NUT
- MB88004-40083 SWITCH PLATE A
- DMW-180J DC MOTOR
- ZA50-1/60 16
- 17 VX-016-1A3 MICRO SW EWS-UOAS25E53 VR 5KOHM
- 3V-265 19

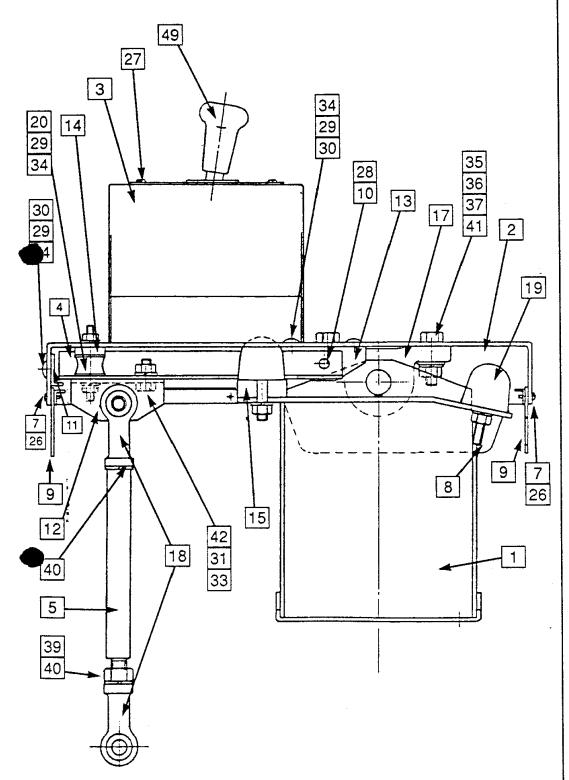


M12 X 40

# **GEAR UNIT ASSEMBLY**



# CHAIR UNIT ASSEMBLY

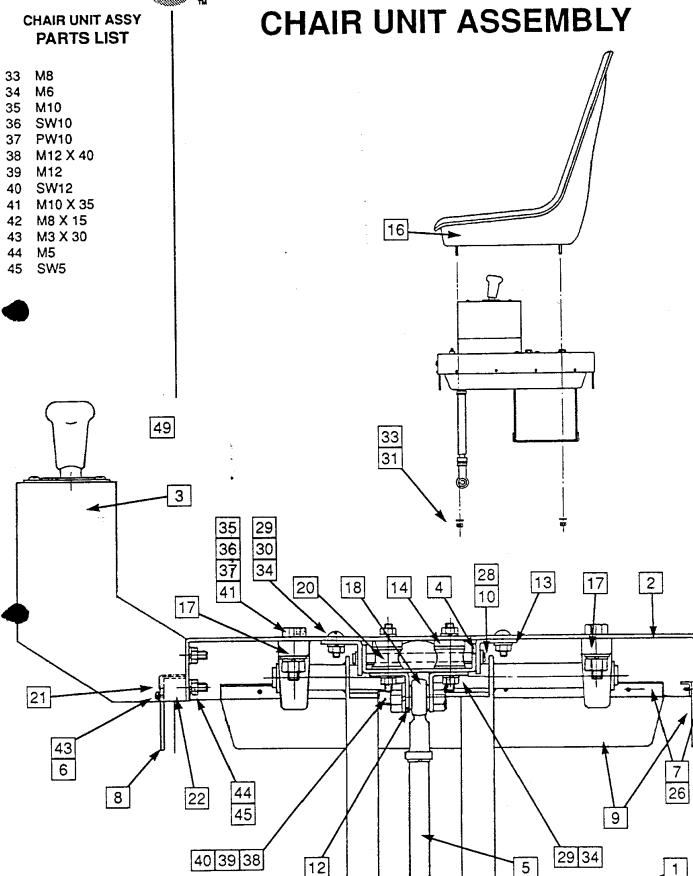


### **CHAIR UNIT ASSY PARTS LIST**

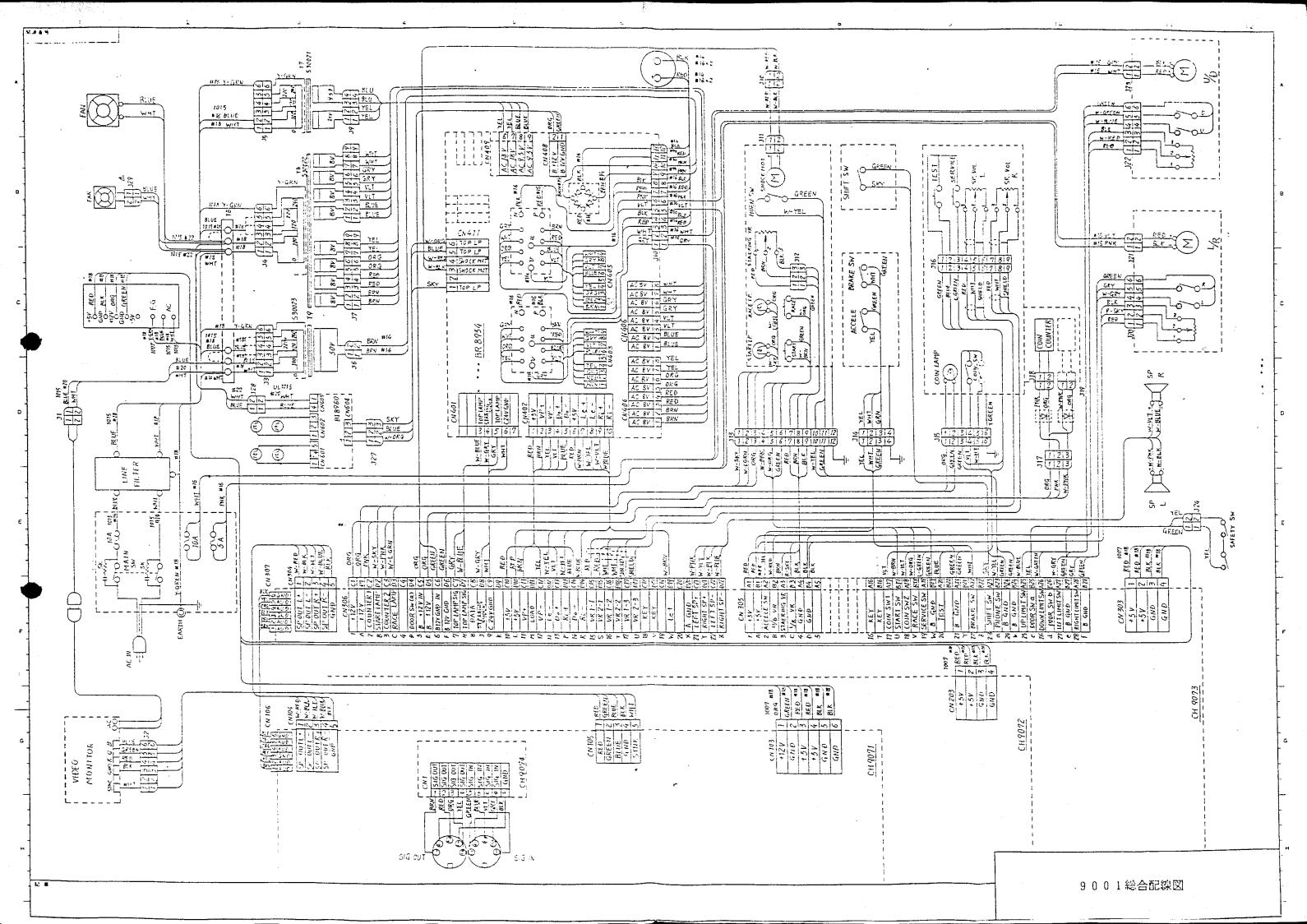
- MB9001-10058-1 CHAIR BASE
- 2 MB9001-10060-2 CHAIR BRKT
- 3 MB9001-10061-1 SHIFT BOX
- 4 MB9001-30243-1 ROD BRKT A
- MB9001-30273 CHAIR ROD
- MB9001-30274 COVER NUT S
- MB9001-30275 **COVER NUT**
- 8 MB9001-30276 COVER S
- MB9001-30277 COVER L
- MB9001-40298 ROD A
- MB9001-40299-1 11 **ROD STOPPER**
- 12 MB9001-40300 ROD BRKT B
- MB9001-40301 ROD BRKT C
- MB9001-40337 COLLAR B
- MB9001-40338 COLLAR C
- 16
- BLLP 3J 17 BEARING
- **NHS 12T** 18 ROD END
- EH 10003 19 **STOPPER**
- KA-25
- MB9001-30290 COVER BRKT S
- MB9001-40350 WOOD S
- M3 X 12 26
- M4 X 10 27
- 28 STW-8
- 29 **SW6**
- M6 X 18 30
- SW8 31
- PW8

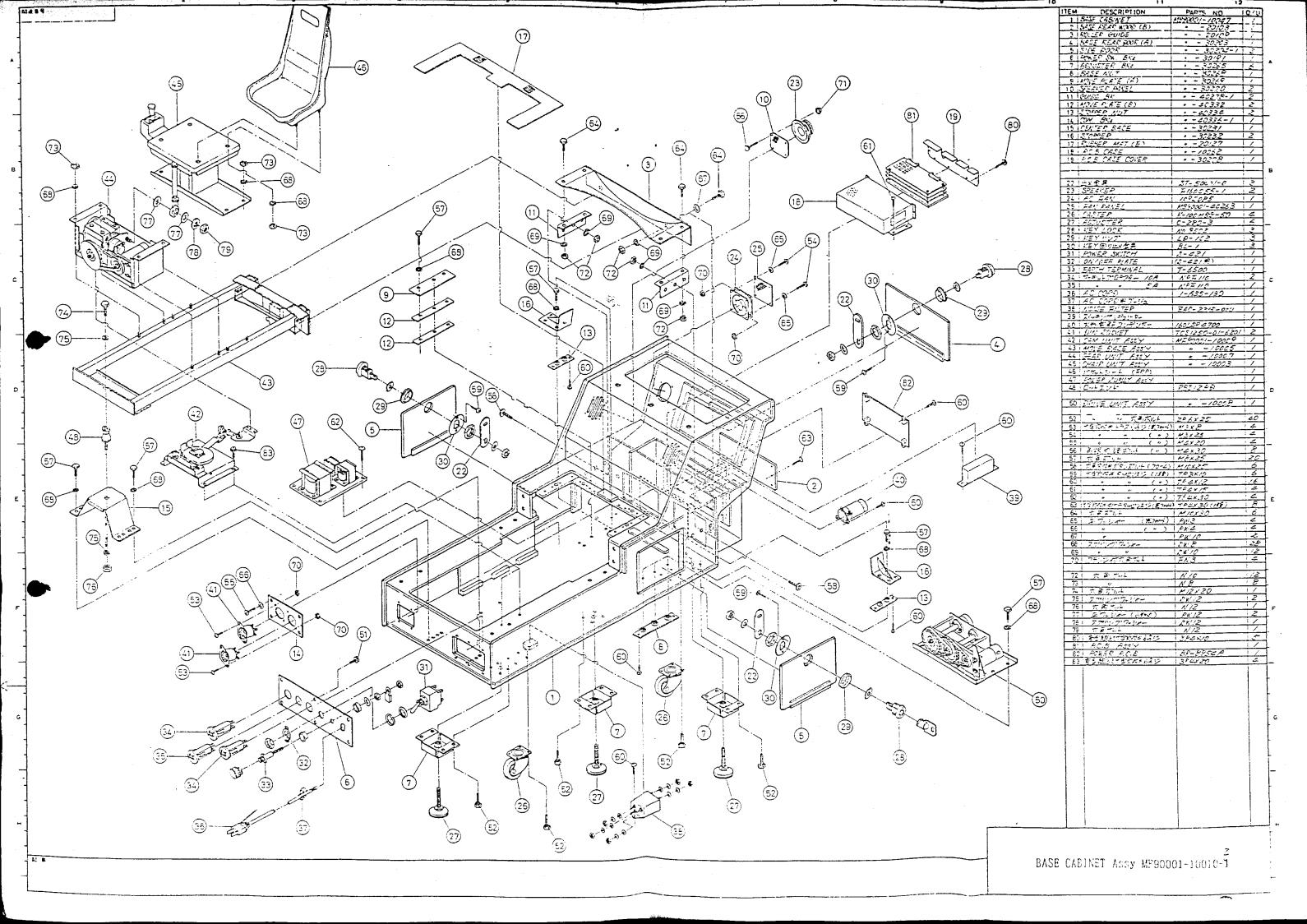
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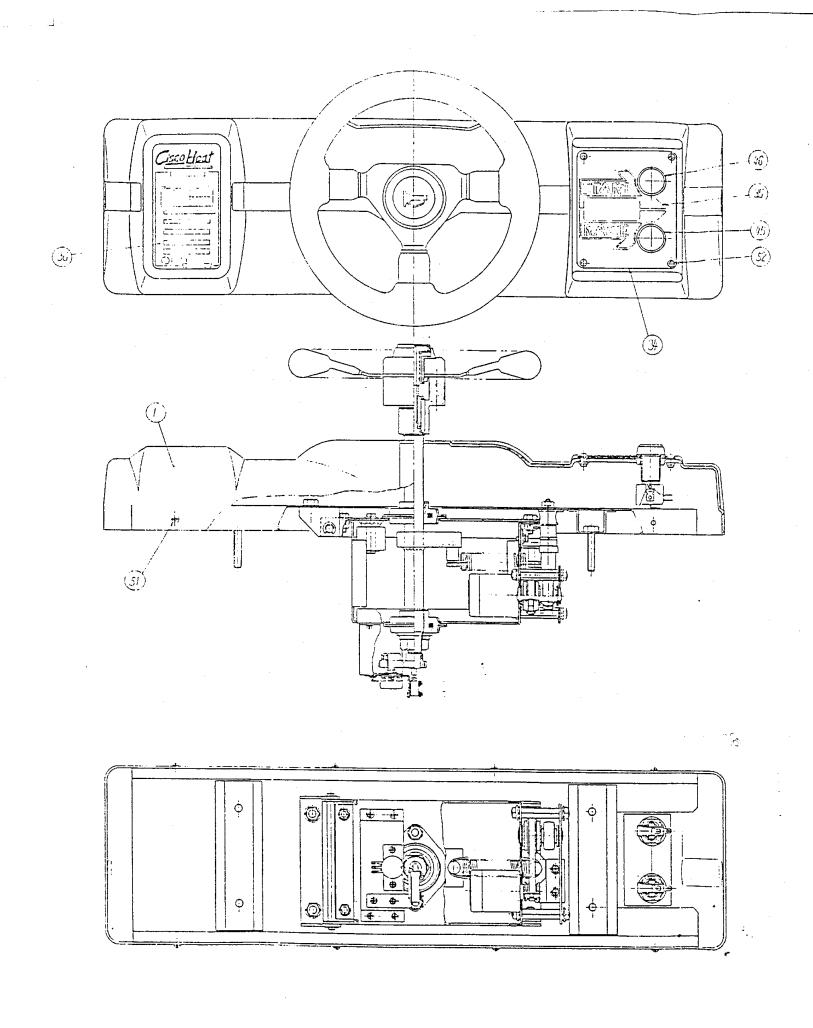




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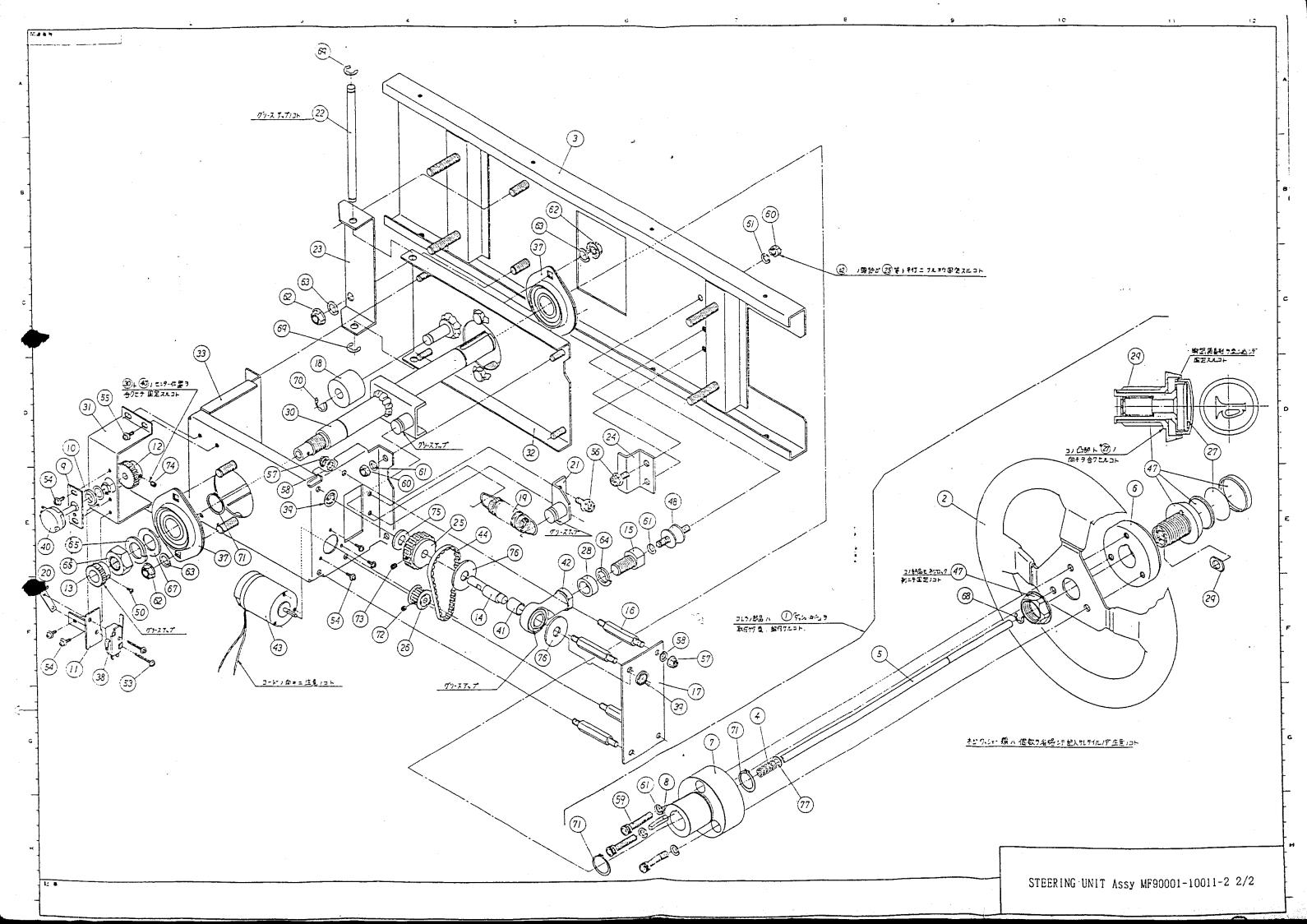


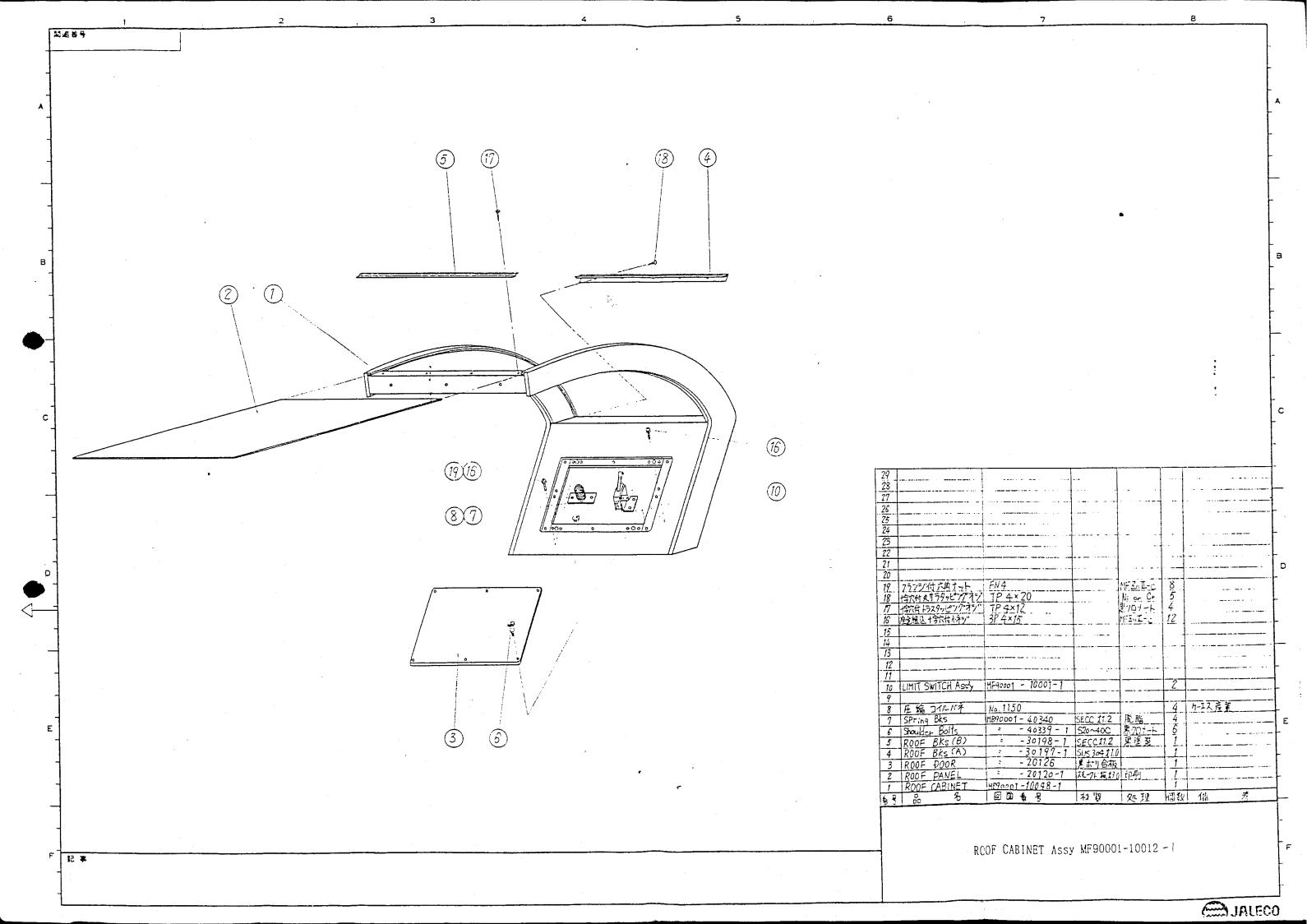


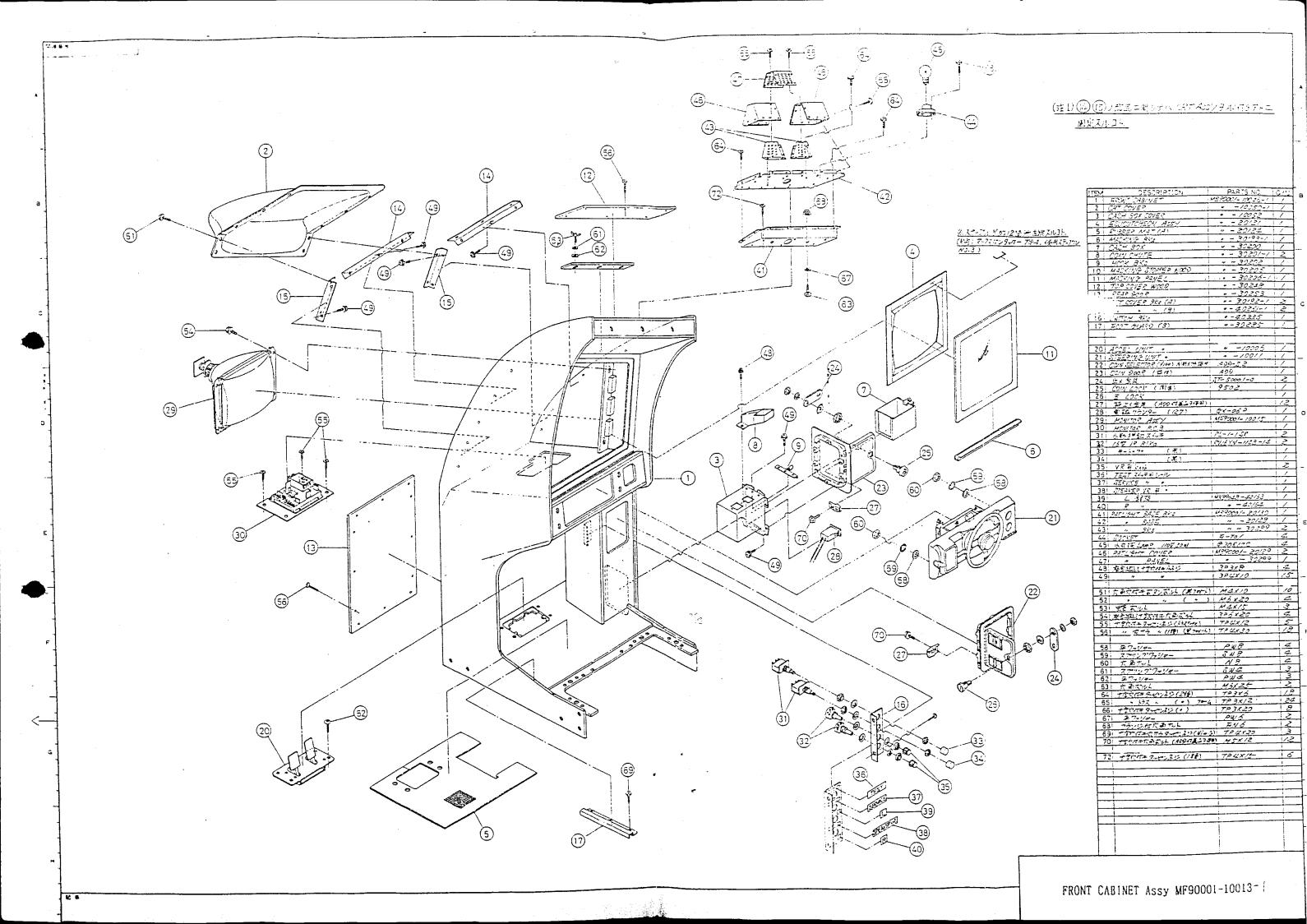


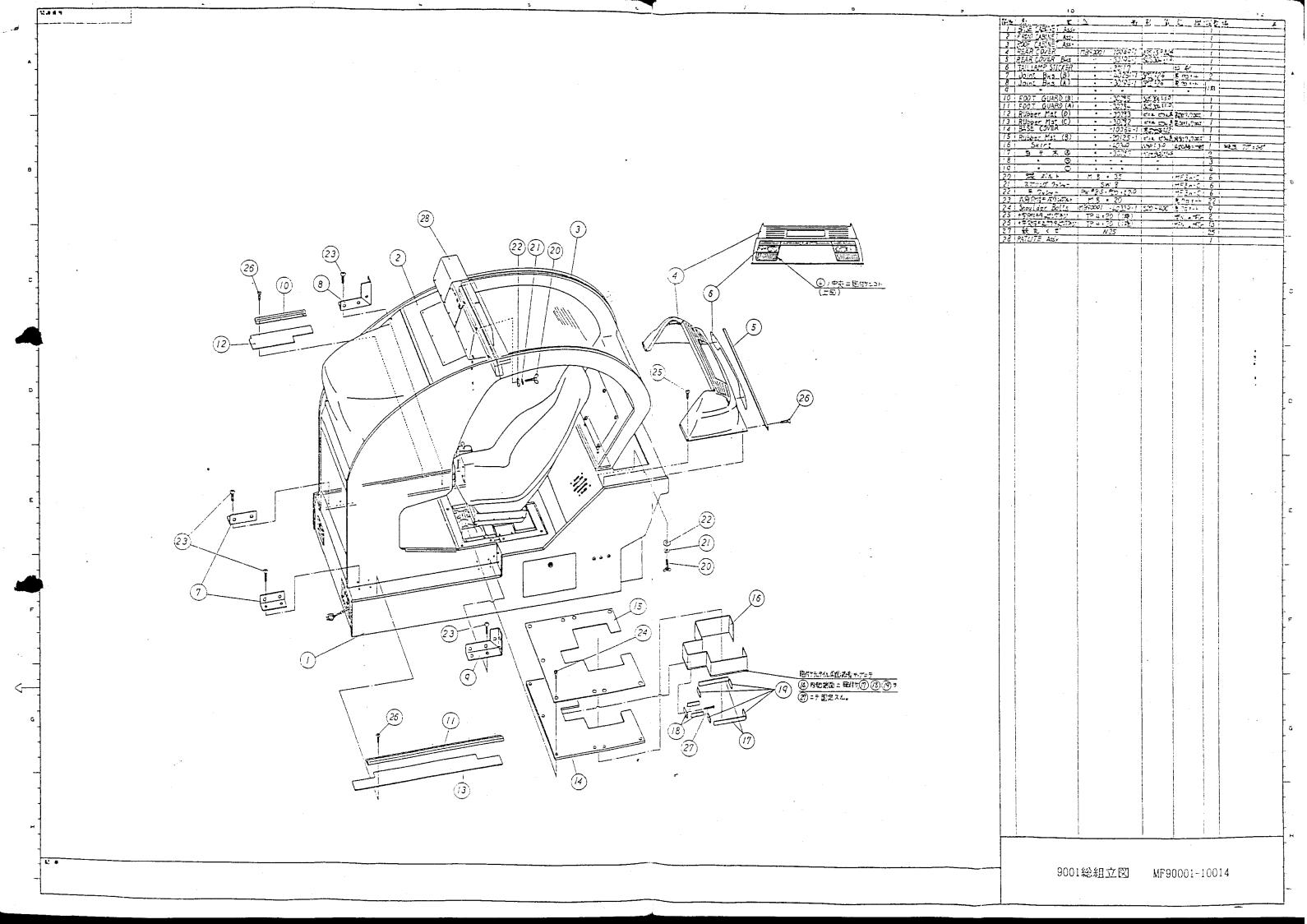
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|   |  | PW6<br>910-5 - 22 - 1-5  |  | ·   | ⊥                                       | <del> </del>       |
| 77<br>76  |  | 910-3 = 22 + + 1-5   |  |   | 2                                       | <u> </u>           |
| 75  | \$ 7.54-   | PW3  | L  | 4/5Z, C   | _1                                      | 11.5               |
| 74  | - 11   | M5.10  | •  |   | 1                                       |                    |
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| 64  | ·  | 2.7  | <u>i                                     </u>  |   | 2                                       |                    |
| 68  | 医形工火焰  | <u> 25</u>   |  |   | 7                                       |                    |
| 67  | まり,シー  | PW 15  |  |   | 1                                       | <del></del>        |
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| 63  | スプリングワッショー   | SWY  |  |   | 6                                       |                    |
| 421   | フランジがする 多えん  | F Y 3  |  |   | 7                                       | देशका गर् <b>न</b> |
| 67  | スプリングワッシャー   |  |  |   | ーカー                                     |                    |
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| 59  | 九百六日十六十  | M G + 30   |  |   |   |                    |
| .53   | スプリング ツェ・ー<br>2722 付入的ルト   | 5₩5  | i I  |   | 2                                       |                    |
| 57  | フクンン付き向かり  | FN5  |  | *   | R                                       | 11:11 /15 M        |
| 36.   | 及多根本言何以明神山   | 3P 5 × 15  |  | , ,   | 4                                       |                    |
| 35  |  | 30 11-15   | ·  |   | 4                                       |                    |
|   |  | 3P 5 x 15<br>3P 4 x 10<br>3P 3 x 5   |  |   |   | <u> </u>           |
| 24  | 3. \$ 20.5 p. p. 20.0 c. 1   |  | <u></u>  |   | "                                       |                    |
| 53  |  |  |  | Mr Zn C   | 2:                                      |                    |
| 52  | 式剪放射线物和研   | M 4 - 10   |  | .,  |   |                    |
| 37  | TH オン  | Pt 4 (10)  |  |   | B                                       |                    |
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| 77  |  | 0,554-35   | (h) t,//   |   |   |                    |
| -25_  |  | •  | 14.7/1-1   |   | !                                       |                    |
| 44.5  |  | 08\$A+36<br>30 XL 03!  | China man  |   |   |                    |
| 44.   | UMING PELT   | 30 X1 031  |  |   | - 1                                     |                    |
| 1/3   | DC MOTOR   | DME 4489   | 24 V   |   |   | 11本生派              |
| 42  | ROD END  |  | <u> </u>   |   | <del></del>                             | 11 4- 7-71         |
| 75-   | COD END  | JAF 12   |  |   | !                                       | ASAIL              |
| 41  | BEARING  | 305-1015   |  |   | !                                       | Aft.Z              |
| 40  | VR SkD   | EWS-UNAS/ISES  |  |   | 1 1                                     | 17. F              |
| 347   | <u> L'EAKING</u>   | <u> </u>   |  |   | 2                                       | II.F<br>NSK        |
| 38  | MICRO SW   | AH 7152361   |  |   | 1                                       | 劫行                 |
| 3X<br>37  | BEAKING  | F48812<br>AH7/52361<br>BPFLU   |  |   | 2                                       | ASHAII I           |
| 35  | Instruction Scal   | ME90001 = 40351 :  | ララエト か.  | 13 E  | 7                                       |                    |
| 3.5   | Z1.4 X+.5-   | • - 40153  |  |   |   |                    |
| 34  | スイッチ アレート  | 11889042 4015h   | Trans.   | Jan 15  | <del>-,-</del> -                        |                    |
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| 33<br>32  | 1111 11 = (1)  | - 200 50   | 12.3   |   |   |                    |
| 37  | HANDLE BK (3)  | - 10069  | 125  |   |   |                    |
| بينيد   | VR PRICKET   | • - 30063  | SICC LIFE  |   |   | <u> </u>           |
| 30  | HANDLE SUFFT   | MB83C04 - 30057  | 317 [ ] 7.55 (3  | 2.7   |   |                    |
|   | I SIDE PLATE   | • - 42345  | ya 116   |   | 7                                       |                    |
| 32  | 7979-11:7  | <u> 1390001 - 40200</u>  | C30 130  | M[2:10  | 1                                       | <del></del>        |
| 7.7   | MYONE. MAKK  | - 1/20071  | Store Page   | 112 2212 22   | 7                                       |                    |
| <u>747</u><br>75  | 7 - 77/2 1   |  |  |   |   |                    |
| -52-  | ( <u>§</u> )   | - ייחסע  | <b></b>  |   | 1                                       | <u>'</u>           |
|   | TIMING PULLEY (A)  | 18:3034 - 10001  |  |   | 1                                       | !                  |
| الخير ا   | 20-711-11-2  | <u> M690001 - 60269</u>  | . :2-3   | •   | T                                       | !                  |
| <u> </u>  | <u>HANDLE ERACKETA<br/>BANCKET SHAFT</u><br>SPRING BRACKETH  | - 40035<br>- 40035   | ST1:26   | •   | 7                                       |                    |
| _:::]   | BANCKE! SHAFT  | - 40035  | 354/K  | •   | 1                                       |                    |
| 21  | SPRING BRACKLIN  | - <u>- יש</u>  | 72718<br>72778   |   | 7                                       | ····               |
| 2:3   | Sur PLATE (4)  |  | Sec. 11  | MITE TO   |   | ·                  |
| 72  | HANDY E COCHET   | - 40082  | Su 00 2  | <u> 세구, 1 - 0</u><br>8화진지   | -;                                      | <del></del>        |
|   | TIMESCE SPRINGIAL  | - 42092  | 3W-3 -1.5  | 20 70 10 12   |   |                    |
| 13  | CTTTTILL CTALCE  |  | பாரு அடிப்ப  | !   | 1                                       |                    |
| 13  | STEERING STAPER  | 40031 A  | 2777   |   |   |                    |
|   | HANDLE SPRING(A)<br>STEERING STAPER<br>BENKING BRACKET   | 40080<br>- 40080   | 1SPCC (23  | ••  | 1                                       | <u> </u>           |
| 13<br>17<br>15  | SHOCK POST   | 10051 \( \tilde{\Omega} \)   | \$PCC (25)   |   | 4                                       |                    |
| 15  | SHOCK POST<br>CRANK AKM  | 40050<br>40079   | # 1844<br>"  | <br>HET "J-C  | 4                                       |                    |
| 15  | SHOCK POST<br>CRANK AKM  | 40050<br>40079   | # 1844<br>"  | <br>HET "J-C  | 4                                       |                    |
| 15  | SHOCK SHAFT  | 40050<br>40079   | # 1844<br>"  | <br>HET "J-C  | 4                                       |                    |
| 7.5<br>7.5<br>7.3<br>7.3  | SHOCK SHAFT  | 40050<br>40079   | # 1844<br>"  | <br>HET "J-C  | 4                                       |                    |
| 19104 132   | SHOCK SHAFT  SHOCK SHAFT  SHOCK SHAFT  H  SPURGER HV   | - 40079<br>- 40079<br>- 40079<br>- 40077<br>- 40072  | 5541B  |   | 4                                       |                    |
| 15<br>13<br>13<br>12<br>11  | DEWING BANKEI  SHOCK POST  CRANK AKM SHOCK SHAFT  H SPUR GUR HV  SW Bracket  | - 40050<br>- 40079<br>- 40079<br>- 40071<br>- 40072  | SSUB   | #打りまで<br>第二条 大  | 1                                       |                    |
| 15<br>15<br>14<br>13<br>12<br>11<br>10  | SEMIM BARKEI SHOCK POST CRANK AKM SHOCK SHAFT H SPUR GENR HV SW Bracket VR GUIDE   | - 40050<br>- 40079<br>- 40079<br>- 40071<br>- 40072  | SSUB   | #打りまで<br>第二条 大  | 1                                       |                    |
| 15<br>15<br>14<br>13<br>12<br>11<br>10  | BENTIME BARKET  CHOCK POST CHARK AKN SHOCK SHAFT  H SPUR SER HV SW Brucket VK GITDE  VE PLATE H  | - 2000<br>- 40079<br>- 2007<br>- 42077<br>- 42077<br>- 40075<br>- 40073<br>- 40072   | SE41B<br>SE41B<br>SE41B<br>SE2-166<br>SE2-166<br>SEC-166   | #打りまで<br>第二条 大  | 1 1 1 1 1 1                             |                    |
| 15<br>15<br>14<br>13<br>12<br>11<br>10<br>2                                   | SEMIM BARKEI SHOCK POST CRANK AKM SHOCK SHAFT H SPUR GENR HV SW Bracket VR GUIDE   | - 2000<br>- 4027<br>- 2007<br>- 2007<br>- 2007<br>- 4007<br>- 4007<br>- 4007<br>- 4007<br>- 4007   | SSUB   | <br>HET "J-C  | 4                                       |                    |
| 1/5<br>1/5<br>1/3<br>1/3<br>1/3<br>1/3<br>1/4<br>1/6<br>1/7                   | SETTING BAR AND SHOCK POST CHANK ART SHOCK SHAFT HE STAR HAVE SW Bracket VR QUIDE VR RATE HE STEETING KEY  | - 2000<br>- 40078<br>- 20078<br>- 20079<br>- 20075<br>- 40075<br>- 40073<br>- 40070<br>- 40070   | SEU (2)<br>  SEU (B<br>  SEU (B<br>  SEC (C)<br>  SEC (C)<br>  SEC (C)   | #打りまで<br>第二条 大  | 4                                       |                    |
| 15 15 14 13 12 11 10 17 30 7 16   | SETTING BAR AND SHOCK POST CHANK ART SHOCK SHAFT HE STAR HAVE SW Bracket VR QUIDE VR RATE HE STEETING KEY  | - 2000<br>- 40078<br>- 20078<br>- 20079<br>- 20075<br>- 40075<br>- 40073<br>- 40070<br>- 40070   | SEU (2)<br>  SEU (B<br>  SEU (B<br>  SEC (C)<br>  SEC (C)<br>  SEC (C)   | него.1 с<br>Я.40 х<br>  | 1 1 1 1 1 1 1                           |                    |
| 15 15 14 13 12 11 10 17 30 7 16   | SERVING BANKEL HOLK POST GRANK AKM SHOCK SHAFT SHOCK SHAFT SPUR GENR MY SW Brocket VR GUIDE VR PLATE H STERLING KEY HANILE HOLLING   | - 2000<br>- 40078<br>- 20078<br>- 20079<br>- 20075<br>- 40075<br>- 40073<br>- 40070<br>- 40070   | SEU (2)<br>  SEU (B<br>  SEU (B<br>  SEC (C)<br>  SEC (C)<br>  SEC (C)   | #打りまで<br>第二条 大  | 4<br>1<br>1<br>1<br>1                   |                    |
| 15<br>15<br>12<br>11<br>10<br>7<br>3<br>7<br>6<br>5                           | BERMIN BARKET HOLK POST GRANK AKTI SHOCK SHAFT  SPUR GENR IN SW Brucket VE RATE H STESTING KEY HANKE HOLETER PROM GAR  | - 2003<br>- 4/02/9<br>- 4/02/9<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3   | SEALB   SEAL   | #51-1-0<br>#.40 A<br>HEZ.) ©  | 1 |                    |
| 15 14 13 12 11 10 17 16 15 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15 | SEMANT BARATE  HOLK POST  CRANK ARM  SHOCK SHAFT  SPUR GOVE IN  SW Bracket  VR GIDE  VR GIDE  VR RATE H  STEELING KEY  HANTLE HOLD HOLD HOLD HOLD HOLD HOLD HOLD HOLD  | - 2003<br>- 4/02/9<br>- 4/02/9<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3<br>- 4/07/3   | SEALB   SEAL   | #51-1-0<br>#.40 A<br>HEZ.) ©  | 1 |                    |
| 15 12 13 12 11 10 17 16 15 18 18 18 18 18 18 18 18 18 18 18 18 18             | SEPTIME BARRET SHOCK POST CHANK ART SHOCK SHAFT SHOCK SHAFT  SPUR GOVE HY SW Brocket VR QUIDE VR PLATE H STORTON KOY HANTLE HOLDING PHOM BAR SW SECOL  422,480-77-75-1   | - 2003<br>- 4007<br>- 2075<br>- 2077<br>- 2075<br>- 4075<br>- 4074<br>- 4077<br>- 4077 | SCOLOS  SCOLOS | HEZ. TO<br>B. AV. A<br>HEZ. TO<br>Co. SQ<br>M. Z. A. S | 1 |                    |
| 15 12 12 11 10 7 3 7 6 6 4 2 3 2 4  | BENTAL BARREL HOLK POST GRANK AKRI SHOCK SHAFT  SHOCK SHAFT  SHOCK SHAFT  SPUR GURE VK QUIDE VK QUIDE VK PATE H STEETING KEY  HANTLE HOLLING SW SELLE VICTORIAN SW SE | - 2003<br>- 4007<br>- 2075<br>- 2077<br>- 2075<br>- 4075<br>- 4074<br>- 4077<br>- 4077 | SCOLOS  SCOLOS | HEZ. TO<br>B. AV. A<br>HEZ. TO<br>Co. SQ<br>M. Z. A. S | 1 |                    |
| 15 12 11 10 7 3 7 6 5 2 3 2 1   | SEPTIME BARRET SHOCK POST CHANK ART SHOCK SHAFT SHOCK SHAFT  SPUR GOVE HY SW Brocket VR QUIDE VR PLATE H STORTON KOY HANTLE HOLDING PHOM BAR SW SECOL  422,480-77-75-1   | - 2003<br>- 4007<br>- 2075<br>- 2077<br>- 2075<br>- 4075<br>- 4074<br>- 4077<br>- 4077 | SEALB   SEAL   | HET. I C<br>B. Ac A<br>HET. I C<br>C- SQ<br>KENK<br>HET. I C  | 1 |                    |

STEERING UNIT Assy MF90001-10011-2 1/2









# PCB Set for Cisco Heat

The 4-piece PCB Set (basic PCB set) is composed of:

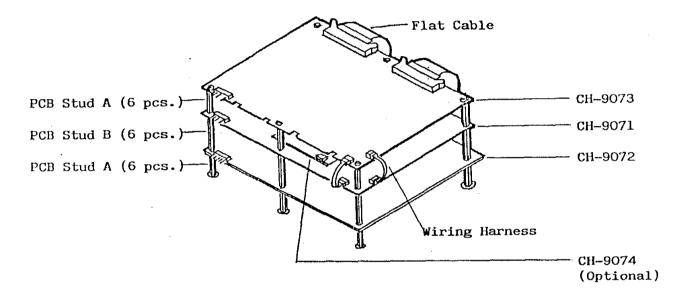
CH-9071

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:



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 18V 2A, 9.5V 3A.

### Switching Regulator

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

# SETTING THE DIP SWITCHES

# FOR EUROPE

## PRICE SETTING:

| DII         | P SWITCH | #SW30  | 1 () | BOARI | ои с | . Сн- | -9073 | 3)  |    |     |
|-------------|----------|--------|------|-------|------|-------|-------|-----|----|-----|
|             | COIN     | CREDIT | 1    | 2     | 3    | 4     | 5     | 6   | 7  | 8   |
|             | 1        | 1      | OFF  | OFF   | OFF  |       |       |     |    |     |
| COIN        | 1        | . 2    | ON   | OFF   | OFF  |       | ·     |     |    |     |
| SLOT        | 1        | 3      | OFF  | ON    | OFF  |       | •     |     |    |     |
| #1          | 1        | 4      | ОИ   | ОИ    | OFF  |       |       |     |    | ••• |
|             | 1        | 5      | OFF  | OFF   | ON   |       |       |     |    |     |
| (RIGHT HAND | 1        | 6      | ON   | OFF   | ON   |       |       |     |    |     |
| SIDE)       | 1        | 7      | OFF  | ON    | ON   |       |       |     |    |     |
| ·           | 2        | 3      | ON   | ОИ    | 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  |    |     |
| (LEFT HAND  | 3        | 1      |      |       |      | ОИ    | OFF   | ОИ  |    |     |
| SIDE)       | 4        | 1      |      |       |      | OFF   | ОИ    | ON  |    |     |
|             | 5        | 1      |      |       |      | ON    | ON    | ON  |    |     |
| FREE PLAY   |          |        |      |       |      |       |       |     | ON | ОИ  |

#### SETTING THE OTHER DIP SWITCHES:

| DTP           | SWITCH | #50302  | (BOYDD | MO  | CH-9073) |
|---------------|--------|---------|--------|-----|----------|
| $\nu_{\perp}$ |        | #311304 | UDUARD | NU. | CH-90/31 |

| DII DHIICH #1     |             |     | (2) | 711111 | NO. | <u> </u> | 5075 | <i>,</i> |                    |
|-------------------|-------------|-----|-----|--------|-----|----------|------|----------|--------------------|
|                   |             | 1   | 2   | 3      | 4   | 5        | 6    | 7        | 8                  |
|                   | NO.1 RED    | ОИ  | ON  |        |     |          |      |          |                    |
| PLAYER'S          | NO.2 BLUE   | OFF | ON  |        |     |          |      |          |                    |
| CAR               | NO.3 YELLOW | ОИ  | OFF |        |     |          |      |          |                    |
|                   | NO.4 GREEN  | OFF | OFF |        |     |          |      |          | <u></u>            |
|                   | EASY        |     |     | ON     | ON  |          |      |          |                    |
| DIFFICULTY        | NORMAL      |     |     | OFF    | OFF |          |      |          | · <del>·····</del> |
| LEVEL             | HARD        |     |     | ОИ     | OFF |          |      |          |                    |
|                   | HARDER      |     |     | OFF    | ОИ  |          |      |          |                    |
| PLAY              | NORMAL      |     |     |        |     | OFF      |      |          |                    |
| TIME              | UNLIMITED   |     |     |        |     | ON       |      |          |                    |
| SOUND IN          | YES         |     |     |        |     |          | OFF  |          |                    |
| 'ATTRACT'<br>MODE | ио          |     |     |        |     |          | ОИ   |          |                    |
| SCREEN            | JAPANESE    |     |     | '      |     |          |      | OFF      |                    |
| DISPLAY           | ENGLISH     |     |     |        |     |          |      | ON       |                    |
| COMMINUE          | YES         |     |     |        |     |          |      |          | ON                 |
| CONTINUE          | ИО          |     |     |        |     |          |      |          | 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   |
|-----|-----|-----|-----|
| OFF | 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 #SW1 (BOARD NO. CH-9074)

|            | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |    |             |     |    |  |  |
|------------|---|----|-------------|-----|----|--|--|
|            |   | 1  | 2           | 3   | 4  |  |  |
| PLAYER'S   | NO.1 RED                                |    | ON          | ON  | ON |  |  |
| THAIL 5    | NO.2 BLUE                               |    | <del></del> | ОИ  | ОИ |  |  |
| CAR        | NO.3 YELLOW                             |    | ON          | OFF | ON |  |  |
|            | NO.4 GREEN                              |    | OFF         | OFF | ON |  |  |
| MASTER M   | ACHINE                                  | ON |             |     | ON |  |  |
| · ALL OTHE | OFF                                     |    |             | ON  |    |  |  |

### ATTENTION:

IF THE MACHINES ARE FITTED WITH THE OPTIONAL COM-LINK PCB (CH-9074) AND IF THEY ARE COM-LINKED TO ONE ANOTHER FOR SIMULTANEOUS RACING, THEN DIP SWITCH #SW1 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) SWITCH 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-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.

#### 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         | то | 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.