## SE⿷匚



OWNER＇S MANUAL


BUILT IN THE UK BY DEITH LEISURE LTD （ A SEGA OWNED COMPANY）

## TABLE OF CONTENTS

Page
DAYTONA ${ }_{m}$ USA ..... 1

1. INTRODUCTION TO THE OWNER'S MANUAL ..... 4
2. HANDLING AND INSTALLATION PRECAUTIONS ..... 5
3. PREVENTION OF COUNTERFEITING AND CONVERSION ..... 6
4. THE INSTALLATION KIT ..... 7
5. MACHINE INSTALLATION ..... 8
6. TESTS AND ADJUSTMENTS ..... 15
7. HOW TO PLAY ..... 17
8. EXPLANATION OF TEST AND DATA DISPLAY ..... 19
9. CONTROL PANEL ..... 33
10. ACCELERATOR \& BRAKE ..... 35
11. 4 SPEED SHIFTER ..... 36
12. PARTS ..... 40
13. TROUBLE SHOOTING ..... 61APPENDIX A WIRING SCHEMATICAPPENDIX B COIN MECH INSTALLATIONAPPENDIX C NANAO MONITOR SETUPAPPENDIX D COMMUNICATION PLAYAPPENDIX E INSTALLATION GUIDANCE IN PICTURES

DAYTONA w USA
USHERING IN A NEW "INTERACTIVE CG" ERA! USING REAL TIME TEXTURE MAPPING CG BOARD "MODEL 2"

Incorporating real time texture mapping CG Board "Model 2" which SEGA developed using state-of-the-art technology. High speed visuals with authentic realism and profound depth created by 32 bit 3-D graphics engine power enabling texture mapped 300,000 polygons a second to be represented!! The world of unparalleled "VIRTUAL REALITY" unfolds before own eyes.

THE WORLD'S BEST HYPER REALISTIC 3-D RACING

## \& SOPHISTICATED "VIRTUAL REALITY" VISUALS ALLOWS YOU TO EXPERIENCE THE UTMOST IN EXCITEMENT WITH SUPER-REALISTIC RACE SIMULATION!

Scores of eye-catching colourful racing machines in a double file column are taking a rolling start, roaring off into a 300 kph high speed race. Run though the oval circuit bank by taking advantage of a slipstream! Enjoy the spectacular drifting technique as well as counter-steering skills....the neck and neck close competition gives authentic excitement and thrills....the game is targeted for a wide spectrum of customers including beginners and avid fans.

## $\mathscr{H}$ TRUE TO LIFE SOUNDS !

The Woofer provided under the seat reproduces simulated realism of a racing car's roaring sound.

## \& THE GAME ALLOWS UP TO 8 PERSONS TO ENJOY "VS" PLAY SIMULTANEOUSLY!

The communication functions allow for the "Vs" type real time races which up to 8 people can compete, are incorporated into the machine.

## \& DETAILED REPRESENTATION ONLY "MODEL 2" CAN OFFER !

When accidents such as collisions, crashes etc. occur, the parts scattering and machine damage are faithfully depicted. Numerous details including scenery reflecting in the racing car's rear window, tunnel lights, smoothly fluttering flags etc. are also authentically reproduced, bring you simulated realism never before experienced.
$\mathscr{H}$ THREE COURSES - (BEGINNERS, ADVANCED \& EXPERT)

| BEGINNERS: | OVAL CIRCUTT | 8 Laps with 40 entry cars. |
| :--- | :--- | :--- |
| ADVANCED : | GRAND CANYON COURSES | 4 Laps with 30 entry cars |
| EXPERT : | SEASIDE COURSE | 2 Laps with 20 entry cars. |

## If "TIME LAP MODE" INCORPORATED

The time trial race in which only the player's machine fiercely keep running on the EXPERT'S SEASIDE COURSE. A high repeat play ratio can be expected from your customers....avid fans in particular!

If ON COURSE DRIVING $\mathbb{N}$ THE OPPOSITE DIRECTION THAT REQUIRES SKILFUL TECHNIQUES, IS ALSO POSSIBLE.

Enjoy the maximum thrill that you can only experience in this game by facing your opponents while they scream towards you at ultra-high speeds.
$\mathscr{H}$ VR. BUTTONs ALLOW YOU TO ALTERNATE THE 4 DIFFERENT VISUAL PERSPECTIVES, GIVING YOU THE ULTIMATE SPEED SENSATION

H $\begin{aligned} & \text { NEW MECHANISMS ALLOW YOU THE REALISTIC SENSATION OF } \\ & \text { DRIFTING AND ACTUAL STEERING WEIGHT \& KICKBACK } 1\end{aligned}, ~=~$

## 1. INTRODUCTION TO THE OWNER'S MANUAL

| Specifications |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| Installation Space | $:$ | (W) 1560 mm (D) $1580 \mathrm{~mm}(\mathrm{H}) 1830 \mathrm{~mm}$ |  |  |  |  |  |
| Weight (approx) | $:$ | 475 kgs |  |  |  |  |  |
| Supply Requirements | $:$ | $210-220-230-240 \mathrm{~V} \mathrm{AC} 50 / 60 \mathrm{~Hz}$ |  |  |  |  |  |
| Power, Maximum current | $:$ | $1.03 \mathrm{~kW} \mathrm{5.2A@240V}$ |  |  |  |  |  |

Deith Leisure Manufacturing reserves the rights to make modifications and improvements to this machine. The specifications and parts identified in this manual are therefore subject to change without notice.

SEGA ENTERPRISES LTD, supported by its high electronic technology of LSIs, microprocessors, etc. and a wealth of experience for more than 30 years has been supplying various innovative and popular game machines to the world market. This Owner's Manual is intended to provide detailed descriptions together with all the necessary information covering general operation of electronic assemblies, electromechanics, servicing control, spare parts etc. as regards the DAYTONA USA, a new SEGA product.

This manual is intended for those who have knowledge of electricity and technical expertise. Carefully read this manual to acquire sufficient knowledge before working on the machine. Should there be any malfunction, non-technical personnel should under no circumstances access the inside of the machine. Should such a case arise, contact our Main Office or the closest branch office listed below.

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## 2. HANDLING AND INSTALLATION PRECAUTIONS

- When installing or inspecting the machine, be very careful of the following points and pay attention to ensure that the player can enjoy the game safely.
- This game is designed for indoor use only. The game must NOT be installed outdoors or under the following conditions:

1. In areas directly exposed to sunlight, high humidity, direct water contact, dust, high heat or extreme cold.
2. In locations that would present an obstacle in the case of an emergency, ie.near fire equipment or emergency exits.
3. On an unstable surface or subject to floor or other vibration.

- IMPORTANT. Ensure that the mains input voltage matches that of the transformer input tapping. ( 240 V is the normal factory set-up)
- The cabinet must be earthed with a securely connected earthed plug
- Be sure to switch the power OFF before replacing any parts or connecting/disconnecting the electrical connectors.
- DO NOT attempt to repair the Printed Circuit Boards (PCB) yourself. This will void the warranty. The PCB contains sensitive components that could easily be damaged by the small internal voltage of a multi-meter. Always return the faulty PCB to your distributor for repair.
- When unplugging the game from the electrical outlet, grasp the plug, NOT the mains cable.
- Do not use any fuse that does not meet specified rating.
- Make complete connections to all the PCBs and other parts of the circuit. Insufficient insertion of ICs and connectors will lead to unreliability and possible damage to the machine.
- The operating (ambient) temperature range is from $5^{\circ} \mathrm{C}$ to $35^{\circ} \mathrm{C}$.
- When cleaning the Monitor CRT Face (which should be done at regular intervals), use a soft dry cloth and glass cleaner*. Do not apply solvents such as thinners, benzene etc.
* Mr Green's Glass Cleaner is recommended (Deith Spares Pt. No. T0105)


## 3. PREVENTION OF COUNTERFEITING AND CONVERSION

LABELLING

To prevent counterfeits and conversions the following labels are put on all the SEGA products. When handling such goods, be sure to confirm the labels. These labels are used to prevent illegal acts such as unauthorised copying of the products and the pritted circuit boards thereof or carrying on business by manufacturing similar merchandise or by converting, selling or such products or printed circuit boards.

## ORIGINAL SEAL

The following seal is put on the machines manufactured by SECA.

## LICENSE SEAL

The following seal is put on all SEGA kits, such as the printed circuit board.


## * COPYRIGHT NOTICE

This SEGA product has the copyright notice as follows:
(C) SEGA 1994

This signifies that this work was disclosed in 1994 and is the property of SEGA ENTERPRISES LTD

## 4 THE INSTALLATION KIT

The DAYTONA TWIN machine is supplied in 3 cartons which contain the following parts:

1. Player 1 Main Base and Monitor Cockpit.
2. Player 2 Main Base and Monitor Cockpit.
3. Installation Kit comprising of:

| $\begin{aligned} & \text { DLMII } \\ & \text { DLMO97 } \end{aligned}$ | Part No. | Description | Notes | Qty |
| :---: | :---: | :---: | :---: | :---: |
|  | DO0029 | Owner's Manual DAYTONA | Please read | 1 |
|  | AY0130/AY0133 | Coin Chute Tower | Assy | 1 |
| SE5232 | AY0134/AY0135 | Billboard Top | Assy | 1 |
|  | AY0137 | Wire Cover | Assy | 1 |
|  | LM1216 | Wire Harness Interconnect | Wire Cover | 2 |
|  | LM1227 | Mains Eurolead with UK plug | AC Supply | 1 |
| $\begin{aligned} & S E 5235 \\ & S \in 522 \frac{Z}{z} \end{aligned}$ | LM1058 | Wire Harness Mech Coin Door | Accessory | 1 |
|  | DYN-0014UK | Billboard Holder Bracket |  | 2 |
|  | DYN-0015UK | Wood Spacer. | For Daytona Cabs | 1 |
|  | MP1209 | Bracket Tie Main Base |  | 2 |
|  | AW1130 | Decal Car No. 1-8 | Accessory | 1 |
|  | OS1192 | Dowel Wood 20x6mm dia | Cabinet | 2 |
| $\begin{aligned} & S \in 0026 \\ & S \in 0018 \\ & S \in 0163 \end{aligned}$ | 600-6275-0500 | Fibre Cable 5000 mm | Inter-linking | 2 |
|  | 540-0006-01 | Wrench M4 TMP PRF | Tool | 1 |
|  | 540-0007-01 | Wrench M5 TMP PRF | Tool | 1 |
|  | 540-0009-01 | Wrench M8 TMP PRF | Tool | 1 |
| $\begin{aligned} & \text { SE0087 } \\ & \text { seo } 232 \\ & \text { SE4930 } \\ & \text { Se1447 } \\ & \text { SE1534 } \end{aligned}$ | 390-5167 | Lamp Mini Spot 30W 110V | Spare | 2 |
|  | 220-5484 | Potentiometer R-5K $\Omega$ | Spare | 2 |
|  | 008-B00830-0B | M8x30 TMP PRF BH Screw | Coin Chute | 3 |
|  | 030-000840-SB | M8x40 HEX BLT w/s Black | Billboard | 8 |
|  | 000-P00412-WB | M4x12 Pan Hd w/fs Blk Screw | Wire Cover | 12 |
|  | FS1014 | M8 Washer Black | Billboard + Chute | 11 |
| $\begin{aligned} & S E 1272 \\ & S E 1535 \end{aligned}$ | FX0213 | M8 Nut (Bright Zinc) | Coin Chute | 3 |
|  | FX0216 | M8 Spring Washer | Coin Chute | 3 |
| JE5633 | FS1025 | M4 Large Washer Black | Wire Cover | 6 |
| SE1173- | FX0011 | M4 Flange Nut | Wire Cover | 2 |
|  | - | Key | Coin/Service Door | 2 |
|  | - | Key | Cash Box | 2 |



Fig. 1 Tamperproof Wrench

## 5. MACHINE INSTALLATION

The Machine is assembled using the following procedure:

Unpacking the delivery Cartons.
(2) Assembling the Main Cabinets
(3) Assembling the Billboard to the Main Cabinets
(4) Connecting the Wire Cover Assy to the back of the Main Cabinets.
(5) Power On Check

## CAUTION

Failing to comply with these instructions, for example, inserting an electrical connector into a socket at a stage not mentioned in this procedure might cause an electrical shock accident.

Fig. 2 shows the machine completely assembled.

### 5.1 UNPACKING THE DELIVERY CARTONS

Before starting the assembly work, check to see if the parts, screws etc. in the Installation Kit listed in section 4 are present. If you discover any discrepancies contact your nearest SEGA distributor.

Please note that the following tools in addition to the M4, M5 and M8 Tamper Proof Wrenches will be required to construct the machine.

13mm Open Ended Flat Spanner<br>25 mm Open Ended Flat Spanner<br>$1 / 4$ " Drive Ratchet Wrench<br>$1 / 4$ " Drive Extension Arm<br>13 mm Socket, $1 / 4$ " Drive<br>No. 1 Pozidrive Screwdriver<br>Small Hammer



Fig. 2 The Completed Machine Assembly

### 5.2 ASSEMBLING THE LEFT AND RIGHT MAIN MACHINES

Step 1. As both cabinets are identical, establish which will be the Left (Player 1) and Right (Player 2) cabinets.

Step 2. On the Player 2 cabinet, locate the two dowel holes (using your Thumb) in the Left cheek under the Decal (see Fig 3). Insert dowels provided by puncturing Decal and tapping them into position. Fit the wood spacer provided (DYN0015 UK ) onto these dowels with the curved edge facing the front.

Step 3. Fit the Coin Chute Tower onto the side of the same cabinet using $2 \mathrm{M} 8 \times 30$ TMP PRF BH Bolts, nuts and washers. See Fig. 4

Step 4. Bring together and align Player 1 cabinet to Player 2 cabinet enclosing the Coin Chute Tower.

Note At this stage it is important the two cabinets are in close alignment to allow easy fixing of the Coin Chute Tower to the other cabinet and subsequent assembly of the Billboard across the two cabinets. This can be achieved by lowering the Leg Adjusters as required. After the machine is fully assembled these may be retracted to allow the machine to be moved into position and the 8 Leg Adjusters lowered again to raise the machine of its casters. See Step 17

Step 5. Ensure that the holes in the Player 1 cabinet align with that of the left hand side of the Coin Chute Tower. Check that the tops of both cabinets are level (re-adjust cabinet height if necessary) then insert 2 x M8x30 Tamper Proof Button Head Bolts through the wooden cabinet and affix with 2 x M8 nuts and washers on the inside of the Coin Chute Tower.

Step 6. Fit the two Tie Brackets MP1209 to the inside front and rear leg adjusters. Loosly retain by closing up the 2 half nuts on the 4 inside Leg Adjusters. See Fig. 6

### 5.3 ASSEMBLING THE BILLBOARD TO THE MAIN CABINET

Step 8. Place the Billboard over the 4 mounting studs across the top of the two cabinets, then mate the two connectors protruding from the cabinets with those within the Billboard.

Step 9. Push the whole Billboard forward carfully locating the 4 keyhole shaped cutouts on the underside of the Billboard between the gap on these 4 composite studs. Be careful not to trap any wires in the process.

Step 10. Secure the Billboard to the top of the cabinet using the two Billboard Holder Brackets (DYN-0014UK) and 8 off M8 x 40 HEX Bolts.

### 5.4 CONNECTING THE WIRE COVER TO REAR OF CABINET

Step 11. Offer up Part A (See Fig 5) to the back of the Coin Chute Tower and the connector panels on each of the Main Bases. Fix Part A to the back of the Main Bases using 6x M4 x 12 screws ( $000-\mathrm{P} 00412-\mathrm{WB}$ ) and the large M4 washers provided in the Installation Kit. A Pozidrive screwdriver will be needed for this operation.

Step 12. Connect the paired end of the wiring harness interconnect LM1216 to the 2 RIGHT-HAND sockets (SKT. C2/R \& SKT. C3/R) at the back of the Coin Chute Tower. Connect its other end to SKT. 1/R on the RIGHT-HAND Main Base. See Fig 7

Step 13. Connect the other wiring harness interconnect LM1216 to the LEFT-HAND sockets on the Coin Chute Tower and Main Base in a similar way to Step 12. See Fig. 7

Step 14. Connect the 2 Fiber Optic cables (600-6275-0500) between the Rx and Tx connectors at the back of the Main Bases.

$$
\begin{aligned}
& \mathrm{Rx} \rightarrow \mathrm{Tx} \\
& \mathrm{Tx} \rightarrow \mathrm{Rx} .
\end{aligned}
$$

IMPORTANT do not bend these cables over a tight radius (must be $>60 \mathrm{~mm}$ ) as damage will result. It is recommended that excess length is loosly coiled up and pushed against the connector panel on each main base.

Step 15. IMPORTANT. Before fitting Part B, make sure that the Earth wire is connected to the Earth Stud on the back of the Coin Chute Tower using the fixings provided on this stud.

Step 16. Part B should be secured to Part A using 6x M4x12 Pan HD w/fs screws together with $2 x$ M4 Flange nuts, to the back of the Coin Chute Tower.

### 5.5 FIXING PLAYING POSITION

Step 17. Move the machine into position, screw out the 8 Leg Adjusters to make contact with the floor so that the casters clear the floor by approximately 5 mm . The M16 nuts can be used to lock the legs into position against the underside of the metal base. Adjust the position of Tie Bracket so that they lie flat against the floor between the two Main Bases then fully tighen the retaining nuts.


Fig. 3 Fitting the Wood Spacer to the Cabinet


Fig. 4 Fitting Coin Chute Tower to Cabinet


Fig. 5 Rear Wire Cover


Fig. 6 Tie Bracket Fixings


Fig. 7 Wire Cover Electrical Connections

## 6 POWER ON CHECK

## TURNING THE POWER ON

Turning the MAIN SWITCH on will cause the machine to start the POWER ON check automatically. The steering wheel turns left and right, then returns to the centering position and stops. In this check, the values of V. R. inside the control panel are corrected. Until the check is finished (the steering wheel stops automatically), do not touch the steering wheel or play the game. If you do, the steering wheel reaction during the game (at the time of a course-out or crashing) can not he obtained correctly.
In a case of a strange reaction during the game. turn the power on again from the beginning and complete the power-on check.

For communication play, the network check is performed after the power is turned on and the on-screen display will show the check mode.

The steering wheel turns leff/right automatically.
 DO NOT TOUCH!

Fig. 8A POWER ON CHECK

In the TEST MODE, ascertain that the assembly has been made correctly and the electronic system is functioning satisfactory (refer to Section 8). In the test mode, perform the following tests:

## (1) <br> MEMORY TEST


(2) INPUT TEST

(3) OUTPUT TEST

(4) SOUND TEST


Selecting the INPUT TEST on the test mode menu screen causes the screen (on which each switch and Y.R. are tested) to be displayed. Press each switch. For the coin switch test. insert a coin from the coin inlet with the coin chute door being open. If the display beside each switch indicates "ON," the switch and wiring connections are satisfactory.
Ascertain the display of V. R. value for the steering wheel and accelerator \& brake. If the V. R. values are not satisfactory, refer to Sections 9 \& 10.

In the TEST mode menu, selecting OUTPUT TEST allows the screen (on which the projector is tested) to be displayed. Although the projector adjustments have been made at the time of shipment from the factory, color deviation, etc., may occur due to the affection caused by geomagnetism, the location building's steel frames and other game machines in the periphery. By watching the test mode screen, make judgment as to whether an adjustment is needed. If it is necessary, adjust the projector by referring to Section 13.

In the LAMP TEST mode, carry out the lamp test to ascertain that each lamp lights up satisfactorily.

In the TEST mode, selecting SOUND TEST causes the screen (on which sound related BD and wiring connections are tested) to be displayed. BGM (backgrqund music) is emitted from the tweeter speakers (a round type), one each on both sides (right/left) of the control panel and also from the rear speakers (a square type), one each on both sides (right/left) behind the seat. Other sounds (announcement and sound effects) are emitted from the front speakers (a square type), one each on both sides (right/left) of the control panel and also from the superwoofer. Be sure to check if the sound is satisfactorily emitted from each speaker and the sound volume is appropriate.

Perform the above inspections also at the time of monthly inspection.

## 7. HOW TO PLAY

Herein, explanations are given to the case of an independent play. Note that for communication play, some of the following points including the starting method, will not apply:
(1) Take a ride in the machine. The seat position can be adjusted forward and backward. For adjustments, pull the lever which is positioned on the lower left-hand side (facing the projector screen) of the seat .
(2) Insert a coin. The coin chute door is on the right-hand side (facing the projector screen).
(3) 3 courses appear on the screen in the sequence of Beginner, Advanced and Expert starting from the left. Turn the steering wheel to select the course and effectuate the selection by stepping on the Accelerator.
(4) AUTO/MANUAL selection screen appears. By turning the steering wheel, choose AUTO or MANUAL and effectuate the selection by stepping on the Accelerator.
(5) When choosing AUTO or MANUAL, stepping on the Accelerator while pressing the start SW will result in a TIME ATTACK mode in which no competitor car will appear and only the player's car will run.
(6) When AUTO or MANUAL is determined, the game starts. Choosing the Beginner course results in a rolling start, the same as in the Daytona race. When the Advanced or Expert course is chosen, be sure to step on the Accelerator to start the machine.
(7) The on-screen upper right-hand side, below the upper right, the upper middle, below the upper middle, the upper left-hand side and the lower right respectively indicates the player's present position, where other cars are, time limit, speed \& tachometer, lap time and course map.


FIG. 7.1
(8) After the game is started, the allotted time decreases. Passing a checkpoint allows the ganhe to continue with the previous remaining time added to the time limit up to the next checkpoint. If you fail to pass a checkpoint within the time limit, the game will be over.
(9) In case of a course-out or crash, the steering wheel reacts.
(10) When you finish 8 laps, 4 laps and 2 laps, which respectively corresponds to the BEGINNER, ADVANCED and EXPERT course, the game will be over.
(11) The player whose results are excellent is allowed to register his name. Turn the steering wheel to choose the alphabetical letters and step on the accelerator to effectuate the selection. The name will be displayed on the DEMO screen.


Note: "ACCEL." refers to the ACCELERATOR.
FIG. 7.2

HOW-TO-PLAY KNACK
It is recommended that you choose AUTOMATIC if you are not so familiar with the game. Also, note that choosing V. R. SW No. 2 (blue) or No. 3 (yellow) allows for better perspectives. At the corners, be sure to drive slower. Refrain from abruptly turning the steering wheel to avoid an accident. In this game, skillful braking is important. Also, note that it is important to grasp the features of the courses as soon as you can. Find out the best way to pass the corners.

When MANUAL SHIFT is chosen, refer to the engine r.p.m. for shifting. SHIFTING UP immediately before the indicator indicates the red zone allows the acceleration to be made in the most efficient manner.

## CAUTIONS TO BE HEEDED WHEN USING THE TEST MODE:

In the case where multiple units are linked for communication play, exiting from the test mode causes the unit to perform the network check automatically. During this time, all of the linked units will not allow the game to be played in normal status. Therefore, be sure not to enter the test mode if any one of the units is in play. On the other hand, if even one unit is in the test mode, make sure that other machines are not in play.

## 8-1 SWITCH UNIT



Open the coin chute door, and the switch unit shown will appear. The functioning of each $S W$ is as follows:
(1) TEST SWITCH
(2) SERVICE SWITCH SERVCE
(3) SOUND VOLUME FRONT VOL SUPER WOOFER
(4) SOUND VOLUME rear vol
: For the handling of the test button, refer to the following pages.
: Gives credits without registering on the coin meter.
: Adjusts the volume of the control panel's speakers and Superwoofer under the seat.
: Adjusts the volume of the 2 rear speakers behind the seat and the control panel's tweeter.

The control panel switches are also used in the test mode. For each functioning, refer to the following page and onward.


## 8-2 TEST MODE

- The Test Menu allows the functioning of each part of the Cabinet to be checked, the PROJECTOR to be adjusted, and the coins and game related various settings to be performed.
- Press the TEST SWITCH to cause the following Test Menu to be displayed on the monitor. (FIG. 8. 2)
- Press the SERVICE SWITCH until the pointer " $\gg$ " is moved to the desired item. Also, note that pressing VR1 (red) causes the arrow to move downward and pressing VR4 (green) causes the arrow to move upward.
- Bring the pointer " $\gg$ " to the desired test item and press either the TEST SWITCH or START SWITCH to cause the selected item's test to start.


FIG. 8. 2 TEST MENU

After the test is complete, move ">>" to "EXIT" and press the TEST SWITCH or START SWITCH to return to the Game Mode.

## 8-3 BOOKKEEPING

Selecting the BOOKKEEPING in the menu mode causes the bookkeeping data up to the present to be displayed on 2 pages.

- Press the TEST SW or START SW to return to the MENU mode screen.
- Press VR1 (red) to proceed to the other page.

| BOOKKEEPING |
| :---: |
| COIN CHUTE \#1 X000000XX |
| COIN CHUTE \#2 XCXXXXXX |
| TOTAL COINS XXXXXXXX |
| COIN CREDITS X X $\times 0 \times 000 \times$ |
| SERVICE CREDITS XXCXOCOXX |
| TOTAL CREDITS XXXXXXXX |
| NUMBER OF GAMES XXXCOCXXX |
| TOTAL TIME $\quad$ DDxxHxxUxxS |
|  |
| average gane time xxuxxs |
| LONGEST Game time $x \times 1 \mathrm{llx} \times \mathrm{s}$ |
| Shortest game time xxilxxS |
| START : TO EXIT RED $:$ TO OTHER PAGE |

FIG. 8. 3a BOOKKEEPING

- COIN CHUTE\#*: Number of coins put in. As seen from the front of the cabinet, the right-hand side is \#1 and the left- hand side is \#2.
- TOTAL COINS: Total number of activations of coin chutes
- COIN CREDITS: Number of credits registered by inserting coins
- SERVICE CREDITS: Credits registered by the SERVICE switch
- TOTAL CREDITS: Total number of credits (COIN CREDITS + SERVICE CREDITS)
- TOTAL TIME: The total energized time.


FIG. 8. 3b BOOKKEEPING

- BEGINNER COURSE: Beginner course's game play frequency
- ADVANCED COURSE: Advanced course's game play frequency
- EXPERT COURSE: Expert course's game play frequency
- GOALS:

Total number of GOALs of each course.

- Press the TEST SW or START SW to return to the MENU mode screen.
- Press VR1 (red) to proceed to the other page.


FIG. 8. 3b BOOKKEEPINGBEGINNER COURSE: Beginner course's game play frequency

- ADVANCED COURSE: Advanced course's game play frequency
- EXPERT COURSE: Expert course's game play frequency
- GOALS:
Total number of GOALs of each course.
- Press the TEST SW or START SW to return to the MENU mode screen.
- Press VRI (red) to proceed to the other page.


## 8-4 GAME SYSTEM

Selecting the GAME SYSTEM in the menu mode causes the present game setting to be displayed and also the game setting changes can be made. Each item displays the following content. Settings at the time of shipment are as follows:


FIG. 8. 4 GAME SETTING

- ADVERTISE SOUND Advertisement sound during standby.

No sound is produced with "OFF." Standard setting is "OFF."

- COUNTRY This must be set to EXPORT
- CABINET

This must be set to TWIN

- DIFFICULTY

The game difficulty is classified into 4 different categories from EASY to HARDEST. Standard setting is "NORMAL."

SETTING CHANGE PROCEDURE
(1) Press the SERVICE SW or VR1 (red), or VR 4 (green) to move the arrow ( $\gg$ ) to the desired item.
(2) Choose the desired setting change item by using any one of VR2 (blue), VR3 (yellow), TEST SW and START SW.
(3) To retum back to the MENU mode, move the arrow to EXIT and press the TEST SW or START SW.

## 8-5 COIN ASSIGNMENT

The "COIN ASSIGNMENTS" mode permits you to set the start number of credits, as well as the basic numbers of coins and credits. This mode expresses "how many coins correspond to how many credits.'


FIG. 8. 5 COIN ASSIGNMENTS

## - CREDIT TO START Number of credits required for starting game (1~5 credits are selected.) <br> - COIN/CREDIT SETTING <br> "How many coins correspond to how many credits." In this machine, selection as per Table 8.2 is possible.

## SETTING CHANGE PROCEDURE

(1) Press the SERVICE SW or VR1 (red), or VR 4 (green) to move the arrow ( $\gg$ ) to the desired item.
(2) Choose the desired setting change item by using any one of VR2 (blue), VR3 (yellow), TEST SW and START SW.
(3) To return back to the MENU mode, move the arrow to EXIT and press the TEST SW or START SW.

TABLE 8. 2 COIN/CREDIT SETTING (COIN CHUTE COMMON TYPE)

| NAME OF SETTING | FUNCTIONING OF COIN CHUTE \#1 |  |  |  | FUNCTIONING OF COIN CHUTE \#2 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SETTING \#1 | 1 | COIN | 1 | CREDIT | 1 | COIN | 1 | CREDIT |
| SETTING \#2 | 1 | COIN | 1 | CREDIT | 1 | COIN | 2 | CREDITS |
| SETTING \#3 | 1 | COIN | 1 | CREDIT | 1 | COIN | 3 | CREDITS |
| SETTING \#4 | 1 | COIN | 1 | CREDIT | 1 | COIN | 4 | CREDITS |
| SETTING \#5 | 1 | COIN | 1 | CREDIT | 1 | COIN | 5 | CREDITS |
| SETTING \#6 | 1 | COIN | 2 | CREDITS | 1 | COIN | 2 | CREDITS |
| SETTING \#7 | 1 | COIN | 2 | CREDITS | 1 | COIN | 5 | CREDITS |
| SETTING \#8 | 1 | COIN | 3 | CREDITS | 1 | COIN | 3 | CREDITS |
| SETTING \#9 | 1 | COIN | 4 | CREDITS | 1 | COIN | 4 | CREDITS |
| SETTING \#10 | 1 | COIN | 5 | CREDITS | 1 | COIN | 5 | CREDITS |
| SETTING \#11 | 1 | COIN | 6 | CREDITS | 1 | COIN | 6 | CREDITS |
| SETTING \#12 | 2 | COINS | 1 | CREDIT | 2 | COINS | 1 | CREDIT |
| SETTING \#13 | 2 | COINS | 1 | CREDIT | 1 | COIN | 1 | CREDIT |
| SETTING \#14 | 2 | COINS | 1 | CREDIT | 1 | COIN | 2 | CREDITS |
| SETTING \#15 |  | COIN COINS | 1 | CREDIT CREDITS |  | COIN <br> COINS | $\begin{aligned} & 1 \\ & 3 \\ & \hline \end{aligned}$ | CREDIT CREDITS |
| SETTING \#16 | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | COIN COINS | 3 | CREDIT CREDITS | 1 | COIN | 3 | CREDITS |
| SETTING \#17 | 3 | COINS | 1 | CREDIT | 3 | COINS | 1 | CREDIT |
| SETTING \#18 | 4 | COINS | 1 | CREDIT | 4 | COINS | 1 | CREDIT |
| SETTING \#19 | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \end{aligned}$ | COIN <br> COINS <br> coins <br> COINS | 5 | CREDIT CREDITS CREDITS CREDITS | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & \hline \end{aligned}$ | COIN <br> COINS <br> COINS <br> COINS | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 5 \\ & \hline \end{aligned}$ | CREDIT CREDITS CREDITS CREDITS |
| SETTING \#20 | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \end{aligned}$ | COIN <br> COINS <br> COINS <br> COINS | $5$ | CREDIT CREDITS CREDITS CREDITS | 1 | COIN | 5 | CREDITS |
| SETTING \#21 | 5 | COINS | 1 | CREDIT | 5 | COINS | 1 | CREDIT |
| SETTING \#22 |  | COINS COINS | 2 | CREDIT CREDITS | 1 | COIN | 2 | CREDITS |
| SETTING \#23 | $\begin{aligned} & 2 \\ & 4 \\ & 5 \\ & \hline \end{aligned}$ | COINS COINS COINS | $\begin{array}{r} 2 \\ 3 \\ \hline \end{array}$ | CREDIT CREDITS CREDITS | $\begin{aligned} & 2 \\ & 4 \\ & 5 \\ & \hline \end{aligned}$ | COINS COINS COINS | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & \hline \end{aligned}$ | CREDIT CREDITS CREDITS |
| SETTING \#24 | 2 4 5 | COINS COINS COINS | 1 2 3 | CREDIT CREDITS CREDITS | 1 | COIN | 3 | CREDITS |
| SETTING \#25 | 1 2 3 4 5 | COIN <br> COINS <br> COINS <br> COINS <br> COINS | 2 3 4 6 | CREDIT CREDITS CREDITS CREDITS CREDITS |  | COIN <br> COINS <br> COINS <br> COINS <br> COINS | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 6 \end{aligned}$ | CREDIT <br> CREDITS <br> CREDITS <br> CREDITS <br> CREDITS |
| SETTING \#26 | 1 2 3 4 5 | COIN <br> COINS <br> COINS <br> COINS <br> COINS | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 6 \end{aligned}$ | CREDIT CREDITS CREDITS CREDITS CREDITS |  | COIN | 6 | CREDITS |
| SETTING \#27 |  |  | P | LAY |  |  | E PL | AY |

## 8-6 INPUT TEST

When INPUT TEST is selected, the monitor will show the following, allowing you to watch the status of each switch and the value of each V. R. of the CONTROL PANEL.

On this screen, periodically check the status of each switch \& V. R.

- By pressing each switch, if the display on the right-hand side of the name of each switch changes to ON from OFF, the SW and the wiring connections are satisfactory.
- To check CHUTE $1 \&$ CHUTE 2 coin switches, open the COIN CHUTE DOOR and insert a coin(s) from the coin entry.
- To return back to the MENU mode, simultaneously press VR1 \& VR2, or press the TEST SW.


FIG. 8.6 INPUT TEST

An appropriate value of each V.R. is as follows:
HANDLE: $\begin{gathered}\text { Under } 2 \mathrm{DH} \\ \text { left }\end{gathered} \leftarrow \underset{\text { (Centering position) }}{\leftarrow} \quad \underset{\text { right }}{\sim} \quad$ Over D3H
ACCEL Under 30 H
BRAKE: Under 30H (the pedal released)

Over COH
Over D2H (the pedal stepped)

## 8-7 OUTPUT TEST

Choose OUTPUT TEST to cause the following topmost screen to appear. In this test, periodically adjust the projector and check the status of each lamp.


The FIG. at the left shows the menu mode of OUTPUT TEST. Press the SERVICE SW or VR4 (green)/VR1 (red) and bring the arrow (>>) to the desired test item.
Press the TEST SW or START SW to cause the test mode screen below to appear. To eeturn back to the menu mode, bring the arrow to EXIT and press the TEST SW or START SW (FIG. 8.2)


Choose CRT SIZE to cause the screen shown at the left to appear.
Adjust the monitor to make sure that the crosshatch lines do not go beyond the screen size and crosshatch distortion does not occur. Press the START SW to return to the above OUTPUT TEST menu screen.


Choose CRT COLOR to cause the screen shown at the left to appear. This test allows the on-screen color adjustment to be performed. The color of a color bar (for each of the 4 colors, i. e., red, green, blue, and white) is darkest at the leftmost end and brightest at the rightmost end.

Choose LAMP to cause the screen shown at the left to appear.
This enables the status of each lamp to be checked. Causes the START SW lamp and the lamp of each V. R. switch to light up in a sequential order. Press the START SW to return to the above OUTPUT TEST menu screen.

## 8-8 DRIVE BD TEST

Choosing DRIVE BD TEST allows the reaction mechanism of the steering wheel to be checked. Also, this enables the V. R. value for the steering wheel's DRIVE BD and the setting status of the DIP SWes on the Drive BD to be checked.


FIG. 8. 8 DRIVE BD TEST
Bring the arrow ( $\gg$ ) to the desired item by using the SERVICE SW or VR1 (red) or VR4 (green). The steering wheel functions to the setting selected by the arrow. Pressing VR2 (blue) or VR3 (yellow) allows the force transmitted to the steering wheel to increase or decrease.

SPRING Status in which the motor and clutch are not activated. Centering of the handle is caused by only the spring inside the handle mechanism.

- CLUTCH Status in which the clutch is activated. The handle is fixed.
- CENTERING Status in which the handle (of itself) returns to the center position.
- UNCENTERING Status in which the handle is caused not to be in the center.
- ROL LEFT Status in which the handle is rotated in the left-hand side direction.
- ROLL RIGHT Status in which the handle is rotated in the right-hand direction.
- EXIT Causes the menu mode to return on to the screen.
- HANDLE Displays the HANDLE V. R. value. Make sure that the appropriate V. R. value is as follows:

APPROPRIATE V. R. VALUE: Under 2DH $\leftarrow 7 \mathrm{D} \sim 83 \mathrm{H} \rightarrow$ Over D3H Left

Centering Right

- DIP SW Displays the setting status of DIP SWes on the DRIVE BD.

DIP SW SETTING TABLE
The setting of DIP SW Nos. $1 \sim 4$ on the DRIVE BD allows the handle's weight (via "feeling") to be set and ON or OFF of POWER ON CHECK to be selected. DIP SW Nos. 5 to 8 are to be OFF.
The DRIVE BD is mounted on the ASSY ELEC. Refer to $17-1$ when changing the settings.

DIP SW SETTING
NOTE: The shaded portion refers to the setting at the time of shipment.
HANDLE'S WEIGHT

| 1 | 2 | 3 | FUNCTION |
| :---: | :---: | :---: | :---: |
| OFF | OFF | OFF | Light |
| ON | OFF | OFF | 4 |
| OFF | ON | OFF |  |
| ON | ON | OFF |  |
| OFF | OFF | ON |  |
| ON | OFF | ON |  |
| ON | ON | ON | Heavy |

POWER ON CHECK

| 4 | FUNCTION |
| :---: | :---: |
| OFF | Performed |
| ON | Not performed |

When DIP SW changes are made, be sure to turn the power off and then turn it back on again. The new setting is not effective unless it is turned back on again. The handle's reaction mechanism is subject to a secular change. When the reaction becomes lighter, change the DIP SW setting.

## DRIVE BD ERROR DISPLAY

When malfunctioning occurs in the DRIVE BD, testing will not be performed even if DRIVE BD TEST is selected. In this case, the error No. will be displayed by the 7 SEG display on the DRIVE BD.

Also, when a POWER-ON CHECK ERROR occurs, the 7-SEG. display data tepeatedly flashes. First check the handle mecha's V. R., the motor, clutch, etc.

Choosing SOUND TEST causes the following mode to appear on the screen. This allows the desired sound (BGM, announcement and sound effects) to be chosen and heard. Enables the SOUND BD, AMP BD and each speaker to be checked.

Press the SERVICE SW or VR1 (red) or VR4 (green) and bring the arrow ( $\gg$ ) to the desired sound item to be tested. Pressing the TEST SW or START SW allows the selected sound test to be performed. The BGM (background music) is emitted from the tweeter speakers (a round type), one each on the upper left and upper right of the control panel and also from the rear speakers (one each on both sides) behind the seat. Other sounds (sound effects, announcement, etc.) are emitted from the front speakers (a square type), one each on both sides of the control panel and also from the superwoofer under the seat.

| SOUND TEST |
| :---: |
| AUTO |
| BGM1 |
| BGM2 |
| SE1 |
| SE2 |
| VOICE1 |
| VOICE2 |
| VOICE3 |
| NAME |
| RESULT |
| ENGINE |
| >P EXIT |
|  |
| GREEN : CURSOR UP |
| RED $:$ CURSOR DOWN |
| START $:$ TO SELECT |

FIG. 8.9 SOUND TEST

## - AUTO Auto play covering from BGM to RESULT.

Bring the arrow to this item and press TEST SW or START SW to cause SOUND TEST covering from BGM to RESULT will be automatically and repeatedly be performed.

- BGM Background music during game.
- SE Sound effects during game.

VOICE Announcement and comment during game.
NAME Announcement and comment during name entry.

- RESULT Announcement during the display of the results.

ENGINE Engine/Slip/Brake sounds can be emitted by using the ACCEL. pedal, HANDLE pedal and BRAKE pedal respectively.

- EXIT Causes the menu mode to return on to the screen.


FIG. 8. 10 TGP TEST

In this test, TGP (on-screen display related IC) is checked. As shown at the left, if "GOOD" is displayed for all, it is satisfactory. Press TEST SW or START SW to return to the menu screen.

## 8-11 MEMORY TEST

The MEMORY TEST mode is for checking the on-BD memory IC functioning. "GOOD" is displayed for normal ICs and "BAD" is displayed for abnormal IQs.


FIG. 8. 11 MEMORY TEST
When the test is completed, if the results are shown as above, it is satisfactory.

- It takes approximately thirty seconds to complete the test. If the period exceeds thirty seconds, this may have been caused by board malfunctioning.
- After finishing the test, pressing the TEST SW or START SW allows the MENU mode to return on to the screen.


## 8-12 BACKUP RAM CLEAR

Clears the contents of BOOKKEEPING.
When clearing, bring " $\gg$ " to "YES" and when not clearing, to "NO", by using the SERVICE SW or VR1(red)/VR4(green), and then push the TEST SW or START SW. When the data has been cleared, "COMPLETED" will be displayed. Bring " $\gg$ " to "NO" and press the TEST SW to cause the Menu mode to return on to the screen.

Also, note that the game setting contents are not affected by BACKUP RAM CLEAR operation.


FIG. 8. 12 BACKUP RAM CLEAR

## 9. CONTROL PANEL(HANDLE MECHA)

In the TEST mode, if the steering wheel V. R. value variations are not within the allowable range, an adjustment of the V. R. installation position or replacement of the V. R. are needed. Also, apply grease to the steering wheel mechanism's shaft and sliding portions once every 3 months.

When carrying out the above work, take off the 4 truss screws and remove the front cabi's Front Lid Upper.

9-1 REPLACING AND ADJUSTING THE HANDLE's (STEERING WHEEL's) V. R.

The upper side V. R. of the HANDLE MECHA is for the GAME BD., and


FIG. 9.1 the lower side one, for the DRIVE BD. Check the value of the V. R. for the DRIVE BD. The appropriate value of each V. R. is as follows:

| When the steering wheel is <br> tumed to or positioned at: | Left |  | Centering <br> position |  | right |
| :--- | :--- | :---: | :---: | :---: | :---: |
| V.R. for the GAME BD. : | Under 2 DH | $\leftarrow$ | $7 \mathrm{DH} \sim 83 \mathrm{H}$ | $\rightarrow$ | Over D3H |
| V. R. for the DRIVE BD. : | Under 2 DH | $\leftarrow$ | $7 \mathrm{DH} \sim 83 \mathrm{H}$ | $\rightarrow$ | Over D3H |

Method of V. R. replacement
To replace the V. R., after taking off the connector from the V. R. to be replaced, take out the 2 screws which secure the VR BRACKET, and remove the V. R. together with the bracket and gear. After the replacement, check the V. R. value variations in the test mode.


FIG. 9.2

Method of V. R. adjustment
(1) Loosen the 2 screws which secure the V. R. BRACKET, move the V. R. BRACKET and detach the gears.
(2) Adjust the V. R. so that it is consistent with the value near the centering position.
(3) Cause the gears to be engaged and secure the V. R. BRACKET. At this time, make sure that an appropriate backlash is obtained.
(4) If the V.R. value is not appropriate when the steering wheel is at the centering position, loosen the 2 screws which secure the V. R. gear, turn the gear holder to make a fine adjustment so that the $V$. $R$. value is within the allowable range.
(5) Check the V.R. value variations by turning the handle.

## 9-2 GREASING

Once every 3 months, grease the gears, bearings, springs, and cam \& arm's sliding portions.

11-2 REPLACEMENT AND ADJUSTMENT OF SWITCH

## Method of replacement

(1) Disconnect the wiring connector of the SW to be replaced.
(2) Take off the 2 screws which secure the BRACKET (SW BRACKET A \& B) to which the SW is attached, and remove the SW together with the bracket. (FIG. 11.2)
(3) Take off the 2 screws which secure the SW, and replace the SW.

FIG. 11.2

(4) To secure the replaced SW to the bracket, incline it as shown (FIG. 11.3). Securely fasten the screws by applying an anti-loosening agent to the screws.
(5) Install the SW bracket with 2 screws. When installing SW BRACKET A, an adjustment in the following procedure is required.
(6) After SW replacement, check the SW input in the test mode.

Adjustment to be made at the time of installing SW BRACKET A

Secure the SW by inclining it clockwise.


SW BRACKET A

Secure the SW by indining it counterclockwise.


SW BRACKET B

FIG. 11.3
(1) Shift to the first or second gear.
(2) At this time, secure SW bracket A with 2 screws in a manner so that the SW attached to SW Bracket A is caused to be ON.

## 11-3 GREASING

Apply grease to the following points once every 3 months as a standard. Also, note that RUBBER RING 70 is not of an oil-resistant type and is susceptible to a quality deterioration if oil attaches.

Make sure that grease and any other type of oil do not adhere to it.
The portion where the micro-SW actuator and the shaft come into contact with each other.

## RUBBER RING 70

Do not adhere grease or oil.


FIG. 11.4

## 11-4 REPLACEMENT OF RUBBER STOPPERS

Once every 6 months as a standard, check to see if any damage is caused to the rubber stoppers. If they are damaged, replace them with the spare parts in the procedure shown in the FIG. below.


FIG. 11.5

## Intentionally Left Blank

## 12 PARTS

### 12.1 Main Base

| Item and Part No. |  | Description | Note |
| :---: | :---: | :---: | :---: |
| 1 | DYN-2021UK | Main Base Box |  |
| 2 | DYN-1300 | Brake \& Accel Unit | Assy See 12.7 |
| 3 | AY012 SE4498 | PSU/Sound Tray | Assy See 12.8 |
| 4 | AY0122 | Shield Case Tray | Assy See 12.9 |
| 5 | AY0123 | Floor Front | Assy See 12.10 |
| 6 | FN1000 | Axial Fan 240V AC |  |
| 7 | FN1013 | Axial Fan 240V AC | Slim Model |
| 8 | FN1012 | Metal Fan Guard |  |
| 9 | MP1208 | Bracket For Item 7 |  |
| 10 | 601-5471 | Caster | Sega Part |
| +11 | 601-5699X | Leg Adjuster M16x75mm | Sega Part |
| St2t 12 | 600-6275-0300 | Fiber Optic Cable ( 300 mm ) | Sega Part |
| く 13 | SW1020 | Cherry switch mains interlock | Use 600-6275-0500 |
| 14 | DYN-2004UK | Lock TNG | 36 |
| 15 | CH1165 | Lock 1" Radial Key 284321 |  |
| 16 | DYN-2016 | Pedal Base |  |
| 17 | DYN-0401UK | AC Bracket |  |
| 19 | EP1306 | Mains input Filter 10Amp |  |
| 20 | 211-5479 | Conn Opt Joint PNL-TOCA150 |  |
| 21 | LM1212 | Wire Harness, Interlock Int. |  |
| 22 | LM1213 | Wire harness, AC Supply Interna |  |
| 23 | LM1206 | Wire Harness, Seat Speaker Int. |  |

12.1 Main Base (View)


Page 41

### 12.2 Cockpit Cabinet



### 12.3 Control Panel

| Item and Part No. |  | Description | Note |
| :---: | :---: | :---: | :---: |
| 1 | DYN-1250 | Assy Handle Mecha | Sega Part |
| 2 | DYN-2150 | Assy 4 Speed Shifter | Sega Part |
| $\operatorname{SE} 45003$ | DYN-1201 | Steering Wheel | Sega Part |
| 4 | DYN-1290 | Assy Virtua Buttons | Sega part |
| 5 | DYN-1209 | Handle Collar | Sega Part |
| 6 | DYN-1210 | Steering Emblem | Sega Part |
| 7 | DYN-1212UK | Control Panel Base |  |
| 99 | DYN-1222 | Shift Cover A | Sega Part |
| 8.8 | DYN-1223 | Shift Cover B | Sega Part |
| SE4721 10 | DYN-1214 | Control Panel Cover | Sega Part |
| 11 | DYN-1224UK | M8 BLT Special |  |
| SE4529-12 | 130-5112 | Tweeter $8 \Omega 2 \mathrm{~W} 35 \mathrm{~mm}$ | 69.05 |
| 13 | 117-5164 | Start Plate | Sega Part |
| 14 | 509-5440 | Push Button Switch IT Green | Sega Part |
| SE549215 | $422-0479-02$ | Play Instructions VR Buttons | Sega Part |
| 16 | 600-6373-33UK | Wire Harness, Ext. Tweeter ${ }^{\text {, }}$ |  |
| 17 | 600-6373-45UK | Wire Harness, Ext. Shift |  |
| 18 | 600-6373-46UK | Wire Harness, Virtua Buttons |  |
| 19 | LM1221 | Wire Harness, Credit Switch Int. |  |
| 20 | DYN-1212UK | Control Panel Bracket |  |



Deith Leisure Manufacturing
12.3 Control Panel (View)


Deith Leisure Manufacturing
12.4 Assy Handle Mecha (DYN-1250)


### 12.4 Assy Handle Mecha (DYN-1250)

| . | ITEM NO. | PART NO. | DESCRIPTION | NOTE |
| :---: | :---: | :---: | :---: | :---: |
|  | 1 | DYN-1251 | handle base |  |
|  | 2 | DYN-1252 | BASE LID |  |
|  | 3 | DYN-1253 | HANDLE SHAFT |  |
|  | 4 | DYN-1254 | DRIVE PULLEY |  |
|  | 5 | DYN-1255 | handle pulley |  |
|  | 6 | DYN-1256 | CLUTCH PULLEY A |  |
|  | 7 | DYN-1257 | CLUTCH PULLEY B |  |
|  | 8 | DYN-1258 | MOTOR BRACKET |  |
|  | 9 | DYN-1259 | CLUTCH BRACKET |  |
|  | 10 | DYN-1260 | TENSIONER BRACKET |  |
|  | 11 | DYN-1261 | VR BRACKET |  |
|  | 12 | DYN-1262 | SWING ARM SHAFT |  |
|  | 13 | DYN-1263 | GUIDE HOLDER A |  |
|  | 14 | DYN-1264 | GUIDE HOLDER B |  |
|  | 15 | DYN-1265 | STOPPER RUBBER |  |
|  | 16 | DYN-1266 | STOPPER BOLT |  |
|  | 17 - | DYN-1267 | HOUSING |  |
|  | 18 | DYN-1268 | SPRING HOOK |  |
|  | 19 | DYN-1269 | EXT SPRING |  |
|  | 20 | DYN-1270 | STOPPER KEY |  |
|  | 21 | DYN-1272 | SPACER RING |  |
|  | 22 | DYN-1273 | SWING ARM |  |
|  | 23 | BVG-1221 | GEAR HOLDER |  |
|  | 24 | BVG-1340 | FLT WSHR 8. 1-12×2 |  |
|  | 25 | BVG-1341 | FLT WSHR 4. $1-12 \times 2$ |  |
|  | 26 | SLC-1130 | ADJUST RING |  |
|  | 27 | SLC-1141X | WHITE CAM |  |
|  | 28 | SOR-2112 | BEARING SHAFT |  |
|  | 29 | SOR-2113 | SPACER |  |
|  | 30 | SOR-2115 | KEY $5 \times 10$ |  |
|  | 31 | DYN-1274 | GUARD BRKT |  |
|  | 101 | 100-5018 | BALL BEARING $\phi 8$ (NSK 60822) |  |
|  | 102 - | 100-5112 | BEARING $\phi 17$ (NSK 60032Z) |  |
|  | 103 | 100-5041 | BEARING (NSK F6882Z) |  |
|  | 104 | 220-5373 | VOL CONT B-5K OHM |  |
|  |  | 220-5484 | VOL CONT B-5K OHM |  |
| ! | 105 | $\begin{aligned} & 350-5235 \\ & 350-5294 \end{aligned}$ | MOTOR ACLOOV $1250 / 1550 \mathrm{rpm}$ W/H MOTOR AC100V 60 W | 50-5433) |
|  | 106 | 601-6172 | GEAR 48 |  |
|  | 107 | 601-6959 | GEAR 64 |  |
|  | 108 | 601-7487 | TIMING BELT ( 1505 M 550 ) |  |
|  | 109 | 601-7488 | TIMING BELT ( 100 5M 750) |  |
|  | 110 | 601-7489 | PARTICLE CLUTCH BRAKE |  |
|  | 111 | 310-5029-F20 | SUMITUBE F F20MM | $\phi 4$ |
|  | 112 | 601-0460 | PLASTIC TIE BELT 100 mm |  |
|  | 114 | 209-0023 | CONN CLOSED END | SMALL TYPE |
|  | 201 | 020-000410-H2 | HEX SKT CAP SCR BLK $02 \mathrm{M} 4 \times 10$ |  |
|  | 202 | 020-000512-H2 | HEX SKT CAP SCR BLK $02 \mathrm{M} 5 \times 12$ |  |
|  | 203 | 060-S00400 | SPR WSHR M4 |  |
|  | 204 | 060-S00500 | SPR WSHR M5 |  |

### 12.4 Assy Handle Mecha (DYN-1250)

ITEM NO.
207
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PART NO.
000-P00408-W 000-P00412-W 000-P00416-S 000-P00508-W 060-F00600 060-F00800 065-E00700 068-441616 028-A00308-P 028-A00408-P 050-U00500 050-H00600 050-U00800 000-P00408-S 000-P00310 060-F00300 060-S00300 050-U00600

600-6363-64
600-6363-65
600-6363-85

DESCRIPTION
M SCR PH W/FS M $4 \times 8$
M SCR PH W/FS $4 \times 12$
M SCR PH W/S M4×16
M SCR PH W/FS M $5 \times 8$
FLT WSHR M6
FLT WSHR M8
E RING 7MM
FLT WSHR 4. $4-16 \times 1.6$
SET SCR HEX SKT CUP P M3×8
SET SCR HEX SKT CUP P M4×8
U NUT M5
HEX NUT M6
U NUT M8
M SCR PH W/S $M 4 \times 8$
M SCR PH M $3 \times 10$
FLT WSHR M3
SPR WSHR M3
U NUT M6
WIRE HARN HANDLE MECHA
WIRE HARN STEERING
WIRE HARN EARTH HANDLE MECHA


ITEM NO.

| 1 | DYN-1281 <br> 2 |
| ---: | :--- |
| $171-6478 B$ |  |
| 101 |  |
| 102 | $212-5205-12$ |
| 103 | $509-5560-\mathrm{Y}$ |
| 104 | $509-5561-\mathrm{R}$ |
| 105 | $509-5561-\mathrm{S}$ |
| 106 | $509-5561-\mathrm{Y}$ |
|  | $509-5561-\mathrm{G}$ |

DESCRIPTION
VR SW BRKT
PC BD LIGHTING SW $\times 5$
CONN JST M 12P RTA
PB SW W/L 6V IL Y- $S \in 4536$
PB SW W/L 6V 5L R
PB SW W/L 6V 5L S
PB SW W/L 6V 5L Y
PB SW W/L 6V 5L G
12.6 Assy 4 Speed Shifter (DYN-2150)

12.6 Assy 4 Speed Shifter (DYN-2150) = RAL-2150.

ITEM NO.
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101
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## 102

103
104
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106

PART NO.
DYN-2151
DYN-2152
DYN-2153
DYN-2154
DYN-2155
DYN-2156
DYN-2157
DYN-2158
DYN-2159
DYN-2160
DYN-2161
DYN-2162
DYN-2163
DYN-2164
DYN-2165
DYN-2166
DYN-2167
DYN-2169
DYN-2170
DYN-2171
DYN-2172
100-5041
100-5176
509-5566
601-0460

```
280-5251
601-6231-D070
```

000-P00514-W
000-000616-S
000-P00308-W
000-P00408-W
000-P00412-W
000-P00416-W
000-P00212
060-F00200
060-500200
010-P00306-F
010-P00406-F
000-F00408
065-E00400
060-F00600
600-6363-75
600-6363-89

DESCRIPTION
SHIFT KNOB
SHAFT CASE FRONT $\leq S \in 4924 \geq 1$
SHAFT CASE REAR $\checkmark S \in 4925$
FRONT BASE
REAR BASE
UPPER BASE
UPPER COVER
ROLLER BRKT
COLLAR $\phi 10$
ROLLER SHAFT
collar $\phi 6$
SE 4554 RUBBER RING 70
RUBBER RING 80
SE 4555 RUBBER STOPPER
SW BRKT A re $S \in 4781$
SW BRKT B SE 4782
NUT PLATE M2
SLIDE PLATE - SE4558
COLLAR $\phi 4$
COLLAR $\phi 8$
BOTTOM PLATE
BEARING (NSK F6882Z) $3^{2}$ / $5 \in 0830$
DERURIN BEARING $\phi 26$
SW MICRO TYPE (OMRON SS-5GLT) $\times 5$ SE 4720 .
PLASTIC TIE BELT 100 mm
SELF MOUNT TIE 2.5
EDGING NEW TYPE
M SCR PH W/FS M5 $\times 14$
HEX BLT W/S M6×16
M SCR PH W/FS M3×8
M SCR PH W/FS M $4 \times 8$
M SCR PH W/FS $M 4 \times 12$
$M$ SCR PH W/FS $M 4 \times 16$
$M$ SCR PH M $2 \times 12$
FLT WSHR M2

## SPR WSHR M2

S-TITE SCR PH W/F M $3 \times 6$
$S$ TITE SCR PH W/F $M 4 \times 6$
M SCR FH M $4 \times 8$
E RING 4MM
FLT WSHR M6
WIRE HARN SHIFT MECHA
WIRE HARN EARTH SHIFT MECHA
12.7 Assy Brake and Accelerator (DYN-1300)


Page 51

### 12.7 Assy Brake and Accelerator (DYN-1300) Se4795

| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
| :---: | :---: | :---: | :---: |
| 1 | DYN-1301 | PEDAL BASE |  |
| 2 | BVG-1402 | ACCEL PEDAL |  |
|  | DYN-1306 | ACCEL PEDAL AL |  |
| 3 | BVG-1403 | BRAKE PEDAL |  |
|  | DYN-1307 | BRAKE PEDAL AL |  |
| 4 | BVG-1404 | PEDAL COVER |  |
| 5 | BVG-1405 | SWING ARM A |  |
| 6 | BVG-1406 | SWING ARM B |  |
| 7-SE4564 | BVG-1407 | PUSH ROD |  |
| 8-SE4751 | BVG-1408 | PUSH PLATE |  |
| 9-5E4713 | DYN-1302 | RUBBER DUMPER |  |
| 10.585613 | BVG-1410 | PUSH ROD PIN |  |
| 11 | BVG-1411 | LINK ROD |  |
| 12 | DYN-1303 | TORSION SPRING ACCEL |  |
| 13 | BVG-1413 | TORSION SPRING B |  |
| 14 | BVG-1414 | RUBBER STOPPER |  |
| 15 | BVG-1415 | PEDAL SHAFT |  |
| 16 | BVG-1416 | SWING ARM STOPPER |  |
| 17-4078 | BVG-1417 | SPACER |  |
| 18 | GLC-2122 | GEAR PLATE |  |
| 19 | RDM-1210 | VR BRACKET |  |
| 101 | $\begin{aligned} & 220-5373 \\ & 220-5484 \end{aligned}$ | VOL CONT B-5K OHM VOL CONT B-5K OHM |  |
| 102 | 601-6005 SE1001 | ADJUST GEAR |  |
| 103 | 601-5943 | GEAR 20 ¢ 15 |  |
| 104 | 310-5029-F20 | SUMITUBE F F20MM | $\phi 4$ |
| 105 | 601-0460 | PLASTIC TIE BELT 100 mm |  |
| 106 | 280-5009 | CORD CLAMP $\phi 21$ | -01 also acceptable. |
| 201 | 000-P00408-W | M SCR PH W/FS M $4 \times 8$ |  |
| 202 | 000-P00408-S | M SCR PH W/S M $4 \times 8$ |  |
| 203 | 000-P00416-0B | M SCR PH BLK $\mathrm{M} 4 \times 16$ |  |
| 204 | 008-T00408-0В | TMP PRF SCR TH BLK M $4 \times 8$ |  |
| 205 | 050-H00600 | HEX NUT M6 |  |
| 206 | 060-F00800-0B | FLT WSHR BLK M8 |  |
| 207 | 060-S01200-OB | SPR WSHR BLK M12 |  |
| 208 | 060-500600 | SPR WSHR M6 |  |
| 209 | 060-S00400-OB | SPR WSHR BLK M4 |  |
| 210 | 065-E00600 | E RING 6MM |  |
| 211 | 028-A00308-P | SET SCR HEX SKT CUP P M $3 \times 8$ |  |
| 212 | 068-652016 | FLT WSHR 6.5-20×1.6 |  |
| 213 | DYN-1304 | FLT WSHR BLK 4.4-12×1.6 |  |
| 214 | DYN-1305 | FLT WSHR 12.2-22×0.5 |  |
| 301 | 600-6178-54 | WIRE HARN ACCEL \& BRAKE |  |
| 302 | 600-6178-113 | WIRE HARN EARTH ACCEL \& BRake |  |

### 12.8 PSU/Sound Tray



Item and Part No.

| 1 | DYN-4002UK |
| :--- | :--- |
| 2 | DYN-4003UK |
| 3 | DYN-4004UK |
| 4 | $400-5221$ |
| 5 | $601-6227-01$ |
| 6 | $838-10141$ |
| 7 | $838-10646$ |
| 8 | $837-10652$ |
| 9 | TX1060 |
| 10 | OS1071 |
| 11 | OS1188 |
| 12 | AY0138 |
| 13 | EP1093 |
| 14 | LM1209 |
| 15 | LM1210 |
| 16 | LM1211 |

Description
Wood base PSU/Sound Connector Bracket DYN Drive Board Stand SW Regulator $5 \mathrm{~V}, 12 \mathrm{~V},-5 \mathrm{~V}$ Power Amp. w/sw Regu Mixer \& EQ Amp For Woofer Drive Board Daytona Sound Board Dayton Transformer PCB Feet
Terminal Block 5W 20Amp 0.25"
PCB SSR Board
Fuse 7A 32mm QB
Wire Harness, Power/Audio
Wire Harness, SMPSU Low Volts
Wire Harness, Trans/SMPSU AC

Note

Sega Part Sega Part Sega Part Sega Part Sega Part

### 12.9 Shield Case Assy



| Item and Part No. |  |
| :--- | :--- |
|  |  |
| 1 | DYN-2404UK |
| 2 | DYN-2401UK |
| 3 | DYN-2402UK |
| 4 | DYN-2403UK |
| 5 | DYN-2405UK |
| 6 | FN1011 |
| 7 | $833-10651$ |
| 8 | $837-10539$ |
| 9 | $839-0657$ |
| 10 | $839-0658$ |
| 11 | $839-0683$ |
| 12 | $600-6363-76$ |
| 13 | $600-6363-77$ |
| 14 | $600-6363-79$ |
| 15 | $600-6363-80$ |
| 16 | $600-6363-69$ |
| 17 | LM1208 |

Description
Note
Wood Base Shield Case Tray
Case Shield Main
Case Lid
Cover Optic Cable
Fan Bracket Small
Axial Fan 12V DC 80 mm
Game Board DAYTONA Sega Part
I/O Board Daytona
Filter Board Daytona I/O A Sega Part
Filter Board Daytona I/O B Sega Part
Filter Board Daytona Mod-2 Sega Part
Wire harness, Shield Case 7 Sega Part
Wire harness, Shield Case 8 Sega Part
Wire harness, Shield Case 10 Sega Part
Wire harness, Shield Case 11 Sega Part
Wire harness, Shield Case Amp Sega Part
Wire Harness, Ext. Shield Case

### 12.10 Seat Floor Front

Item and Part No.

| 1 | DYN-2031UK |
| :--- | :--- |
| 2 | DYN-2032UK |
| 3 | DYN-2033UK |
| 4 | DYN-2034UK |
| 5 | DYN-2035UK |
| 6 | $031-000530-0 C$ |
| 7 | $000-T 00420-0 C$ |
| 8 | FX0302 |
| 9 | FX0249 |

Description Note
Floor Front
Floor Edge F F
Floor Edge F R
Floor Edge F Left
Floor Edge F Right
M5 x 30 CRG BLT Chrome Sega Part
M4 x 20 M SCR TH Chrome Sega Part
M5 NUT FLG
M5 Washer (3/16"x3/4")

### 12.11 Seat Floor Rear

| Item and Part No. |  |
| :---: | :---: |
| 1 | DYN-2041UK |
| 2 | DYN-2042UK |
| 3 | DYN-2043UK |
| 4 | DYN-2044UK |
| 5 | DYN-2045UK |
| 6 | DYN-2046 |
| 7 | DYN-2047 |
| 8 | DYN-2048UK |
| 9 | DYN-2049UK |
| 10 | DYN-2014UK |
| 11 | DYN-2006UK |
| 12 | 601-7551 |
| 13 | 000-T00420-0C |
| 14 | 031-000530-0C |
| 15 | FS1026 |
| 16 | FX0163 |

Description
Note
Floor Rear
Floor Edge R F
Floor Edge R R
Floor Edge R Left
Floor Edge R Right Lock Rod A Exp
Lock Rod B Exp
Lock Arm Exp
Nut Plate (Seat)
Rod Holder
Hinge 480
Lock Handle (Takigen A-88) Sega Part
M4x20 M SCR TH Chrome Sega Part M5x30 CRG BLT Chrome Sega Part
Split Pin (Cotter 2.5x20mm)
No. $8 \times 1 / 2 "$ S/Tap Pozi FLG HD
12.12 Seat and Slide Base

12.12 Seat and Slide Base (2/3)


### 12.12 Seat and Slide Base (3/3)

| Item and Part No. |  | Description | Note |
| :---: | :---: | :---: | :---: |
| 1 | DYN-2131UK - | Upper Seat, Daytona SE | 2 |
| 2 | DYN-2132UK | Lower Seat, Daytona Se | 03 |
| 3 | DYN-2133UK - | Seat Back Cover, Daytona | 87 |
| 4 | DYN-2081UK - | Seat Frame Twin SES |  |
| 5 | DYN-2083UK | Rail Cover Se |  |
| 6 | DYN-2091UK - | Seát Base EXP SE |  |
| 7 | DYN-2061UK - | Bracket, Woofer Left |  |
| 8 | DYN-2062UK | Bracket, Woofer Right |  |
| 9 | 130-5114 | Speaker Sub Woofer | Sega Part |
| 10 | 601-7494 | Seat Rail Right SE 40 |  |
| 11 | 601-7493 | Seat Rail Left SE 49 |  |
| 12 | 000-T00412-0B | M4x12 M SCR TH Black | Sega Part |
| 13 | O30-000850-SB | M8x50 HEX BLT w/s Black | Sega Part |

### 12.13 Billboard Case Assy



| Item and Part No. |  |
| ---: | :--- |
| 1 | DYN-0251UK |
| 2 | DYN-0252UK |
| 3 | DYN-0253UK |
| 4 | DYN-0204UK |
| 5 | DYN-0211UK |
| 6 | $214-0110$ |
| 7 | $390-5167$ |
| 8 | $600-6373-37 U K$ |
| 9 | LM1048 |
| 10 | LT1021 |
| SE O66935-11 | LT1014 |
| 12 | $000-T 00408-0 C$ |
| 13 | $000-P 00416-W$ |
| 14 | $030-000840-S B$ |
| 15 | $030-000830-S B$ |

Description
Note

Billboard Case Exp.
Billboard Plate Exp
Upper Holder Exp
Side Holder
Bracket lamp panel
Socket Lamp Screw Fit
Lamp Mini Spot 30W 110V Sega Part
Wire Harness, Lamp Unit
Wire Harness, Std. FL Int.
FL Tray 30W 240V
Tube FL 30W 240V 36"
M4x8 M SCR TH Chrome Sega Part
M4x16 M SCR PH w/sf CRM Sega Part
M8x40 HEX BLT w/s Black Sega Part
M8x30 HEX BLT w/s Black Sega Part

### 12.14 Coin Chute Tower

Item and Part No.
1

| DYN-0301UK |
| :--- |
| 2 |

2 AY0129

Description
Coin Chute Tower Case
Assy VTS Bracket (See 12.15)
Plate VTS Fixing
Plate Floor Daytona
Wire harness, Multi-purpose Coin Handling
Wire Harness, Coin Door Earth
Terminal Block 4W 20Amp
Label C-D-E-F Hedgehog
Cash Box for Mini Door
12.15 VTS Bracket (AY0129)

| Item and PartNo. | Description |  |
| :--- | :--- | :--- |
|  |  |  |
| 1 | MP1029 | Bracket Panel VTS |
| 2 | SW1025 | Push Buttons |
| 3 | LM1215 | Wire Harness, VTS Daytona |
| 4 | EP1004 | PEC Credit Board (Klingon) |
| 5 | EP1003 | Impulse Counter, Panel W/Clip |
| 6 | EP1011 | Potentiometer 4k7 carbon LIN |
| 7 | EP1015 | Knobs |
| 8 | PP1002 | Insulating Boot |
| 9 | LB1006 | Label VTS Controls |
| 10 | LB1028 | Label 110V AC |

### 12.16 Wire Cover

| Item and Part No. |  | Description |
| :--- | :--- | :--- |
|  |  |  |
| 1 | DYN-0016UK | AC Cover A Exp. |
| 2 | DYN-0017Uk | AC Cover B Exp. |
| 3 | EP1302 | Eurosocket Fused Push Fit |
| 4 | EP1092 | Fuse 10Amp 20mm QB |
| 5 | EP1303 | Switch Rocker 240V 10A |
| 6 | EP1081 | Fuse Holder 32mm |
| 7 | EP1307 | Fuse 5Amp 32mm QB |
| 8 | LM1223 | Wire harness, AC IN |
| 9 | LB1037 | Label 10A Fuse |
| 10 | LB1038 | Label 5A Fuse |

## 13 TROUBLESHOOTING

## PROBLEM

Machine fails to start

No Communication Play.

Credit deducted but no Game given.
No steering during Game.

Monitor fails to power up.

## POSSIBLE SOLUTION

1 Check that all Mate-n-Lock connectors are fully locked together. Pay particular attention to those behind the Control Panels. These can be accessed from th $\not$ rear by first removing the upper service panel.

2 Check that the Fibre Optic cables are correctly connected and not damaged by tight bends along their length. Ensure that the first Machine in the line is set to MASTER and all other machines are set to SLAVE. See Appendix D of this manual.
3 See solution 1 above.
4 If the Steering Wheel is held during initial start-up, preventing it from completing a full Left and Right rotation then the steering will be inoperative during Game play. To correct this situation, switch off then allow the machine to go though its initial start-up after switch on without intervention.

5 Check continuity of the 7 Amp SB fuse located beside the Transformer in the main base.


Wiring Schematic




## APPENDIX B

## COIN MECH INSTALLATION

## COIN MECH INSTALLATION AND CREDIT BOARD SETUP

Game credits between the Coin Mech and the game board for the Daytona machine are controlled by a Klingon board. This electronic circuit allows the price of play to be set for a range of different countries. These functions are set on Dual In Line PCB mounted switches.

DIL-2 is used to set the currency (or coin ratio) and DIL-1 the price of play. Refer to the Tables on the following pages for the correct settings for your environment.

The Klingon board pictured is mounted on the VTS Bracket within the Coin Chute Tower.

The Klingon board is connected to the coin validator and lamps via a universal Coin Door Loom \#1 to the coin mech as follows

Coin Controls: Use 15 way connector
Mars : Use 13 way connector
NRI : See note below
Mechanical : Use Universal Coin Door Loom \#2 and connect to the required coin paths (see table) via multi way terminal block located behind coin door.

## Notes

1. If NRI mechs are to be used, these should be ordered with the highest denomination coin on coin path \#1 and the lowest denomination on coin path \#4. The Klingon board should then be set up for either the UK or Switzerland settings. A minimum connecting lead length of 600 mm is required.
2. Mechanical coin mechs may be connected in parallel allowing two identical mechs to be fitted.

## Klingon Credit Board Option Settings

DIL Switch 2 (under IC socket)
Coin Controls:
Mars:

| SW1 | SW2 | SW3 | SW4 | OPTIONS | COIN 1 <br> $F$ | COIN 2 <br> E | COIN <br> D | CONN <br> C |
| :---: | :---: | :---: | :---: | :--- | :---: | :---: | :---: | :---: |
| OFF | OFF | OFF |  | UK Coin Setting | $£ 1$ | 50 p | 20 p | 10 p |
| ON | OFF | OFF |  | Belgium Coin Setting | $\mathrm{n} / \mathrm{u}$ | 50 Bf | 20 Bf | 25 Pst |
| OFF | ON | OFF |  | Spain Coin Setting | 100 Pst | 50 Pst | $\mathrm{n} / \mathrm{u}$ | 5 Pst |
| ON | ON | OFF |  | German Coin setting using NRI |  |  |  |  |
| OFF | OFF | ON |  | Holland Coin Setting | $\mathrm{n} / \mathrm{u}$ | 5 G | 2.5 G | 1 G |
| ON | OFF | ON |  | Portugal Coin Setting | 100 Esu | 50 Esu | $\mathrm{n} / \mathrm{u}$ | $\mathrm{n} / \mathrm{u}$ |
| OFF | ON | ON |  | Austria Coin Setting | 20 | 10 | 5 | 1 |
| ON | ON | ON |  | Switzerland Coin Setting | $5 S f$ | 2 Sf | ISf | $\mathrm{n} / \mathrm{u}$ |
|  |  |  | OFF | Direct mode |  |  |  |  |
|  |  |  | ON | 2 Channel Mode |  |  |  |  |

Set DIL switches (DIL-1) SW-1 to SW-5 according to the option settings found in the relevant Price Of Play Settings Table on the following pages.

Set DIL switches (DIL-2) on the Klingon board located under the IC socket as shown in the table above. SW-4 must always be set 'ON' as the game board only operates in common mode. Care must be exercised when removing IC-1 so as not to damage its lead-outs pins. After setting the switches return the IC to its socket with the package indent mark adjacent to the board edge.

## Universal Coin Handling Loom Connections

Klingon



${ }^{\circ}$ O/P PLY 2
START LAMP
12 UOLTS METER O/P 12 UQLTS O/P PLY GRDUND

- кey

12 UOLTS

## PRICE OF PLAY SETTINGS FOR THE UK

|  |  |  | DIP SWITCH |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 | $\underline{2}$ | $\underline{3}$ | 4 | $\underline{5}$ |
| 10p Play | $50 \mathrm{p}=5$ | $£ 1=10$ | OFF | OFF | OFF | OFF | OFF |
| 10p Play | $50 \mathrm{p}=5$ | $£ 1=11$ | ON | OFF | OFF | OFF | OFF |
| 10p Play | $50 \mathrm{p}=6$ | $£ 1=12$ | OFF | ON | OFF | OFF | OFF |
| 20p Play | $50 \mathrm{p}=21 / 2$ | $£ 1=5$ | ON | ON | OFF | OFF | OFF |
| 20p Play | $50 \mathrm{p}=3$ | $£ 1=6$ | OFF | OFF | ON | OFF | OFF |
| 20p Play | $50 \mathrm{p}=3$ | $£ 1=7$ | ON | OFF | ON | OFF | OFF |
| 30p Play | $50 \mathrm{p}=12 / 3$ | $3 \mathrm{fl}=31 / 3$ | OFF | ON | ON | OFF | OFF |
| 30p Play | $50 \mathrm{p}=2$ | $\mathrm{f} 1=4$ | ON | ON | ON | OFF | OFF |
| 30p Play | $50 \mathrm{p}=2$ | $£ 1=5$ | OFF | OFF | OFF | ON | OFF |
| 40p Play | $50 \mathrm{p}=11 / 4$ | $£ 1=21 / 2$ | ON | OFF | OFF | ON | OFF |
| 40p Play | $50 \mathrm{p}=11 / 4$ | $£ 1=3$ | OFF | ON | OFF | ON | OFF |
| 50p Play | $50 \mathrm{p}=1$ | $£ 1=2$ | ON | ON | OFF | ON | OFF |
| 50p Play | $50 \mathrm{p}=1$ | $£ 1=3$ | OFF | OFF | ON | ON | OFF |
| 60p Play | $50 \mathrm{p}=5 / 6$ | $£ 1=12 / 5$ | ON | OFF | ON | ON | OFF |
| 60p Play | $50 \mathrm{P}=5 / 6$ | $£ 1=2$ | OFF | ON | ON | ON | OFF |
| 80p Play | $50 \mathrm{p}=5 / 8$ | $£ 1=11 / 4$ | ON | ON | ON | ON | OFF |
| £1 Play | $£ 1=1 / 2$ | $£ 1=1$ | OFF | OFF | OFF | OFF | ON |
| £1 Play | $\mathfrak{f 1}=1 / 2 \quad$ f | $£ 1=1 \quad £ 1=3$ | ON | OFF | OFF | OFF | ON |
| £2 Play | $50 \mathrm{p}=1 / 4$ | $£ 1=1 / 2$ | OFF | ON | OFF | OFF | ON |
| £2 Play | $50 \mathrm{p}=1 / 4$ | $£ 1=1 / 2 \quad £ 1=3$ | ON | ON | OFF | OFF | ON |
| £3 Play | $50 \mathrm{p}=1 / 4$ | $£ 1=1 / 2$ £5 $=3$ | ON | ON | OFF | OFF | ON |
| £3 Play | NO BONT | TSES | OFF | OFF | ON | OFF | ON |
| £3 Play | - | $£ 5=3$ | ON | OFF | ON | OFF | ON |
| £5 Play | - | - | OFF | ON | ON | OFF | ON |
| £5 Play | - | $£ 10=3$ | ON | ON | ON | OFF | ON |
| FREE P | Y OPTION |  | ON | ON | ON | ON | ON |

PRICE OF PLAY SETTINGS FOR SPAIN



PRICE OF PLAY SETTINGS FOR AUSTRIA

|  |  |  | DIP SWITCH |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 | $\underline{2}$ | $\underline{3}$ | 4 | $\underline{5}$ |
| 1Sch Play | $5 \mathrm{Sch}=5$ | $10 \mathrm{Sch}=10$ | OFF | OFF | OFF | OFF | OFF |
| 1Sch Play | $5 \mathrm{Sch}=5$ | $10 \mathrm{Rch}=11$ | ON | OFF | OFF | OFF | OFF |
| 1Sch Play | $5 \mathrm{Sch}=6$ | $10 \mathrm{Sch}=12$ | OFF | ON | OFF | OFF | OFF |
| 2Sch Play | $5 \mathrm{Sch}=21 / 2$ | 10 Sch $=5$ | ON | ON | OFF | OFF | OFF |
| 2Sch Play | 5 Sch $=3$ | 10 Sch $=6$ | OFF | OFF | ON | OFF | OFF |
| 2Sch Play | $5 \mathrm{Sch}=3$ | $10 \mathrm{Sch}=7$ | ON | OFF | ON | OFF | OFF |
| 3Sch Play | $5 \mathrm{Sch}=12 / 3$ | 10 Sch $=21 / 3$ | OFF | ON | ON | OFF | OFF |
| 3Sch Play | $5 \mathrm{Sch}=2$ | $10 \mathrm{Sch}=4$ | ON | ON | ON | OFF | OFF |
| 3Sch Play | $5 \mathrm{Sch}=2$ | 10 Sch $=5$ | OFF | OFF | OFF | ON | OFF |
| 4Sch Play | $5 \mathrm{Sch}=11 / 4$ | $10 \mathrm{Sch}=21 / 2$ | ON | OFF | OFF | ON | OFF |
| 4Sch Play | $5 \mathrm{Sch}=11 / 4$ | $10 \mathrm{Sch}=3$ | OFF | ON | OFF | ON | OFF |
| 5Sch Play | $5 S c h=1$ | $10 \mathrm{Sch}=2$ | ON | ON | OFF | ON | OFF |
| 5Sch Play | $5 \mathrm{Sch}=1$ | $10 \mathrm{Sch}=3$ | OFF | OFF | ON | ON | OFF |
| 6Sch Play | $5 \mathrm{Sch}=5 / 6$ | 10 Sch $=12 / 5$ | ON | OFF | ON | ON | OFF |
| 6Sch Play | $5 \mathrm{Sch}=5 / 6$ | $10 \mathrm{Sch}=2$ | OFF | ON | ON | ON | OFF |
| 8Sch Play | $5 \mathrm{Sch}=5 / 8$ | 10 Sch $=11 / 4$ | ON | ON | ON | ON | OFF |
| 10Sch Play | $5 \mathrm{Sch}=1 / 2$ | 10 Sch $=1$ | OFF | OFF | OFF | OFF | ON |
| 10Sch Play | $5 \mathrm{Sch}=1 / 21$ | $\mathrm{ch}=120 \mathrm{Sch}=3$ | ON | OFF | OFF | OFF | ON |
| 20Sch Play | $5 \mathrm{Sch}=1 / 4$ | 10 Sch $=1 / 2$ | OFF | ON | OFF | OFF | ON |
| 20Sch Play | $5 \mathrm{Sch}=1 / 4$ | Sch $=1 / 250$ Sch $=3$ | ON | ON | OFF | OFF | ON |
| 30Sch Play | NO BONUS |  | OFF | OFF | ON | OFF | ON |
| 30Sch Play | 50 Sch $=3$ | - | ON | OFF | ON | OFF | ON |
| 50Sch Play | - | - | OFF | ON | ON | OFF | ON |
| 50Sch Play | 100 Sch $=3$ | - | ON | ON | ON | OFF | ON |
| FREE PLA | Y OPTION | - | ON | ON | ON | ON | ON |

Coin Assignement:
Coin $1=20$ Sch, Coin $2=10$ Sch, Coin $3=5$ Sch, Coin $4=1$ Sch

PRICE OF PLAY SETTINGS FOR FRANCE / SWITZERLAND

|  |  |  |  | DIP SWITCH |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1 | $\underline{2}$ | 3 | 4 | 5 |
| 1F Play | $5 \mathrm{~F}=5$ |  | $10 \mathrm{~F}=10$ | OFF | OFF | OFF | OFF | OFF |
| 1F Play | $5 \mathrm{~F}=5$ |  | $10 \mathrm{~F}=11$ | ON | OFF | OFF | OFF | OFF |
| 1F Play | $5 \mathrm{~F}=6$ |  | $10 \mathrm{~F}=12$ | OFF | ON | OFF | OFF | OFF |
| 2F Play | $5 \mathrm{~F}=21 / 2$ |  | $10 \mathrm{~F}=5$ | ON | ON | OFF | OFF | OFF |
| 2F Play | $5 \mathrm{~F}=3$ |  | $10 \mathrm{~F}=6$ | OFF | OFF | ON | OFF | OFF |
| 2F Play | $5 \mathrm{~F}=3$ |  | $10 \mathrm{~F}=7$ | ON | OFF | ON | OFF | OFF |
| 3F Play | $5 \mathrm{~F}=12 / 3$ |  | $10 \mathrm{~F}=31 / 3$ | OFF | ON | ON | OFF | OFF |
| 3F Play | $5 \mathrm{~F}=2$ |  | $10 \mathrm{~F}=4$ | ON | ON | ON | OFF | OFF |
| 3F Play | $5 \mathrm{~F}=2$ |  | $10 \mathrm{~F}=5$ | OFF | OFF | OFF | ON | OFF |
| 4F Play | $5 \mathrm{~F}=11 / 4$ |  | $10 \mathrm{~F}=21 / 2$ | ON | OFF | OFF | ON | OFF |
| 4F Play | $5 \mathrm{~F}=11 / 4$ |  | $10 \mathrm{~F}=3$ | OFF | ON | OFF | ON | OFF |
| 5F Play | $5 \mathrm{~F}=1$ |  | $10 \mathrm{~F}=2$ | ON | ON | OFF | ON | OFF |
| 5F Play | $5 \mathrm{~F}=1$ |  | $10 \mathrm{~F}=3$ | OFF | OFF | ON | ON | OFF |
| 6F Play | $5 \mathrm{~F}=5 / 6$ |  | $10 \mathrm{~F}=12 / 5$ | ON | OFF | ON | ON | OFF |
| 6F Play | $5 \mathrm{~F}=5 / 6$ |  | $10 \mathrm{~F}=2$ | OFF | ON | ON | ON | OFF |
| 8F Play | $5 \mathrm{~F}=5 / 8$ |  | $10 \mathrm{~F}=1 / 4$ | ON | ON | ON | ON | OFF |
| 10F Play | $5 \mathrm{~F}=1 / 2$ |  | $10 \mathrm{~F}=1$ | OFF | OFF | OFF | OFF | ON |
| 10F Play | $5 \mathrm{~F}=1 / 2$ | $10 \mathrm{~F}=1$ | $120 \mathrm{~F}=3$ | ON | OFF | OFF | OFF | ON |
| 20F Play | $5 \mathrm{~F}=1 / 4$ |  | $10 \mathrm{~F}=1 / 2$ | OFF | ON | OFF | OFF | ON |
| 20F Play | $5 \mathrm{~F}=1 / 4$ | $10 \mathrm{~F}=1 / 2$ | $1 / 2 \quad 50 \mathrm{~F}=3$ | ON | ON | OFF | OFF | ON |
|  |  |  |  | ON | ON | OFF | OFF | ON |
|  |  |  |  | OFF | OFF | ON | OFF | ON |
|  |  |  |  | ON | OFF | ON | OFF | ON |
|  |  |  |  | OFF | ON | ON | OFF | ON |
|  |  |  |  | ON | ON | ON | OFF | ON |
| FREE PLAY OPTION |  |  |  | ON | ON | ON | ON | ON |

PRICE OF PLAY SETTINGS FOR BELGIUM


## Meter Operates on 1BF = 1 Pulse

Coin $1=50 \mathrm{~F}, \quad$ Coin $2=20 \mathrm{~F}, \quad$ Coin $3=5 \mathrm{~F}, \quad$ Coin $4=1 \mathrm{~F}$

PRICE OF PLAY SETTINGS FOR HOLLAND

|  |  |  | DIP SWITCH |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | , | 1 | 2 | 3 | 4 | 5 |
| 1 G Play | NO BONUS |  | OFF | OFF | OFF | OFF | OFF |
| 1G Play | $2.5 \mathrm{G}=3$ | $5 \mathrm{G}=6$ | ON | OFF | OFF | OFF | OFF |
| 1G Play | $2.5 \mathrm{G}=3$ | $5 \mathrm{G}=7$ | OFF | ON | OFF | OFF | OFF |
| 2G Play | NO BONUS |  | ON | ON | OFF | OFF | OFF |
| 2G Play | $5 \mathrm{G}=3$ |  | OFF | OFF | ON | OFF | OFF |
| 2G Play | $5 \mathrm{G}=3$ | $10 \mathrm{G}=7$ | ON | OFF | ON | OFF | OFF |
| 3G Play | NO BONUS |  | OFF | ON | ON | OFF | OFF |
| 3G Play | $5 \mathrm{G}=2$ |  | ON | ON | ON | OFF | OFF |
| 3G = Play | $5 \mathrm{G}=2$ | $10 \mathrm{G}=5$ | OFF | OFF | OFF | ON | OFF |
| 4G Play | NO BONUS |  | ON | OFF | OFF | ON | OFF |
| 4G Play | $10 \mathrm{G}=3$ |  | OFF | ON | OFF | ON | OFF |
| 5G Play | NO BONUS |  | ON | ON | OFF | ON | OFF |
| 5G Play | $10 \mathrm{G}=3$ |  | OFF | OFF | ON | ON | OFF |
| 6G Play | NO BONUS |  | ON | OFF | ON | ON | OFF |
| 6G Play | $15 \mathrm{G}=3$ |  | OFF | ON | ON | ON | OFF |
| 8G Play | NO BONUS |  | ON | ON | ON | ON | OFF |
| 8G Play | $20 \mathrm{G}=3$ |  | OFF | OFF | OFF | OFF | ON |
| 10G Play | NO BONUS |  | ON | OFF | OFF | OFF | ON |
| 10G Play | $20 \mathrm{G}=3$ |  | OFF | ON | OFF | OFF | ON |
|  |  |  | ON | ON | OFF | OFF | ON |
|  |  |  | ON | ON | OFF | OFF | ON |
|  |  |  | OFF | OFF | ON | OFF | ON |
|  |  |  | ON | OFF | ON | OFF | ON |
|  |  |  | OFF | ON | ON | OFF | ON |
| FREE PLAY OPTION |  |  | ON | ON | ON | ON | ON |
| $\begin{aligned} 1 \text { Meter Pulse } & =0.5 \mathrm{G} \\ \text { Coin } 1 & =\mathrm{N} / \mathrm{U} \end{aligned}$ |  | Coin $2=$ | = 2.5 | Coin | $4=1 G$ |  |  |

## APPENDIX C

## NANAO MONITOR SETUP

200-5242-24-02



Fig. C2
Adjustment Panel

## NANAO MONITOR TYPE 200-5242-24-02

## ADJUSTMENT FUNCTIONS

See Fig. C2
[1] R-BIAS (VR102) Turning this to the right will result in the Red becoming darker.
[4] CONTRAST (VR250) Turning this to the right will result in increased Contrast.
[7] B-GANN (VR121) Turning this to the right will result in the Blue becoming darker.
[10] H SIZE (VR533) The horizontal image dimensions are adjustable

[13] V SIZE (VR433)
The vertical image dimensions are adjustable.

[16] V LIN (VR432)

[2] G-BIAS (VR112) Turning this to the right will result in the Green becoming darker.
[5] R-GAIN (VR101 Turning this to the right will result in the Red becoming darker.
[8] BRIGHT (VR570)
This adjusts the on-screen image brightness.
[11] H POSITION (VR532) The horizontal image's position is adjustable.

[14] V POSITION (VR435)
The horizontal image's position is adjustable.

[17] S.P.C (VR434)

[3] B-BIAS (VR122) Turning this to the right will result in the Blue becoming darker.
[6] G-GAIN (VR111)
Turning this to the right will result in the Green becoming darker.
[9] SS SWITCH (SW502) Controls the visual quality.
A: Ordinary
B: Super-sharpness
[12] H HOLD (VR531) This adjusts the horizontal distortions.

[15] V HOLD (VR4ß1)
This adjusts the vertical distortions.


|  | NORMAL | REFLEX |
| :---: | :---: | :---: |
| (19) <br>  <br> CN531 | SEGA <br> The image displayed is normal. | ZECV <br> A vertically invered image is displayed by reflex on a mirror. |
| (20) <br>  <br> CN530 | $\forall \emptyset \exists S$ <br> An image which is turned a 180 degrees is displayed. | ADヨZ <br> An image reflected on a mirror appears. |


(18) NORMAL


REFLEX
(21)

HORIZONTAL FREQUENCY CHANGE CONNECTOR(CN540) After changing, the horizontal frequency will be 15.75 KHz .
(13)

FOCUS
To be adjusted to the best status.
(24) SCREEN

Adjusts to the CUTOFF point.

## (22)

HORIZONTAL FREQUENCY CHANGE CONiNECTOR(CN541)
After changing, the horizontal frequency will be 24.83 KHz .
(25) H-SIZE CHANGE TAP.

After H. SIZE adjustunents are inade, if the size is still narrow, change it to W side. However, this is effective only in the case where the horizontal frequency change connector is CN 540 . $(15.75 \mathrm{KHz}$ )

REF.NO. PART NO.
DESCRIPTION
QTY.

| R461 | OBK10272JT | CARBON | $1 / 4$ |  | $2.7 \mathrm{~K}-\mathrm{J}$ | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| R462 | OBK10472JT | CARBON | $1 / 4$ |  | $4.7 \mathrm{~K}-\mathrm{J}$ | 1 |
| R463 | OBK10222JT | CARBON | $1 / 4$ |  | $2.2 \mathrm{k}-\mathrm{J}$ | 1 |
| R464 | OCLO81R0JL | FUSING | $1 / 2$ |  | 1.0-J | 1 |
| R465 | OBK10222JT | CARBON | $1 / 4$ |  | $2.2 \mathrm{~K}-\mathrm{J}$ | 1 |
| R466 | OBK102223T | CARBON | $1 / 4$ |  | $2.2 \mathrm{~K}-\mathrm{J}$ | 1 |
| R467 | OBK10222JT | CARBON | $1 / 4$ |  | $2.2 \mathrm{~K}-\mathrm{J}$ | 1 |
| R468 | OBK10104JT | CARBON | $1 / 4$ |  | $100 \mathrm{~K}-\mathrm{J}$ | 1 |
| R469 | 02G21303BB | SEMIFIXED | V2068TH1 | 34 | $30 \mathrm{~K}-\mathrm{B}$ | 1 |
| OR R469 | 02G21303EB | SEMIfixed | V2067TH1 | 34 | $30 \mathrm{~K}-\mathrm{B}$ | 1 |
| R508 | OBK10102JT | CARBON | $1 / 4$ |  | $1 \mathrm{~K}-\mathrm{J}$ | 1 |
| R509 | OBK10102JT | CARBON | $1 / 4$ |  | 1 K-J | 1 |
| R510 | OBK10102JT | CARBON | 14 |  | $1 \mathrm{~K}-\mathrm{J}$ | 1 |
| R511 | OBK10331JT | Carbon | $1 / 4$ |  | 330-J | 1 |
| R520 | OBK10471JT | CARBON | 14 |  | 470-J | 1 |
| R521 | OBK10471JT | CARBON | $1 / 4$ |  | 470-J | 1 |
| R522 | OBK10392JT | CARBON | $1 / 4$ |  | 3.9K-J | 1 |
| R523 | OBK10123JT | CARBON | $1 / 4$ |  | 12K-J | 1 |
| R524 | OBK10103JT | CARBON | $1 / 4$ |  | 10K-J | 1 |
| R529 | OBK10103JT | CARBON | $1 / 4$ |  | 10K-J | 1 |
| R530 | OBK10912JT | carbon | $1 / 4$ |  | $9.1 \mathrm{~K}-\mathrm{J}$ | 1 |
| R531 | 02 C 21302 BB | SEMIFIXED | V2068TH1 | 33 | 3K-B | 1 |
| OR R531 | 02G21302EB | SEMIFIXED | V2067TH1 | 33 | $3 \mathrm{~K}-\mathrm{B}$ | 1 |
| R532 | OBK10183JT | CARBON | $1 / 4$ |  | $18 \mathrm{~K}-\mathrm{J}$ | 1 |
| R533 | 02G21302BB | SEMIFIXED | V2068TH1 | 33 | $3 \mathrm{~K}-\mathrm{B}$ | 1 |
| OR R533 | 02G21302EB | SEMIFIXED | V2067TH1 | 33 | $3 \mathrm{~K}-\mathrm{B}$ | 1 |
| R534 | OBK10223JT | CARBON | $1 / 4$ |  | $22 \mathrm{~K}-\mathrm{J}$ | 1 |
| R536 | OBK10562JT | CARBON | $1 / 4$ |  | $5.6 \mathrm{~K}-\mathrm{J}$ | 1 |
| R538 | OBK10153JT | CARBON | $1 / 4$ |  | 15K-J | 1 |
| R539 | OBK10471JT | CARBON | $1 / 4$ |  | 470-J | 1 |
| R540 | OBK10681JT | CARBON | $1 / 4$ |  | 680-J | 1 |
| R541 | OBK10270JT | CARBON | $1 / 4$ |  | 27-J | 1 |
| R542' | OCL04182JT | CARBON | $1 / 2$ |  | $1.8 \mathrm{~K}-\mathrm{J}$ | 1 |
| R543 | ODG05470JL | FUSING | FMR IW |  | 47-J | 1 |
| R546 | OCL04330JT | CARBON | $1 / 2$ |  | 33-J | 1 |
| R547 | OBK10822JT | CARBON | $1 / 4$ |  | 8. $2 \mathrm{~K}-\mathrm{J}$ | 1 |
| R548 | OEL 32550 KM | metal | BPR28 |  | 0.05-K | 1 |
| R550 | OBK10103JT | CARBON | $1 / 4$ |  | 10K-J | 1 |


| R551 | OFLO9272J4 | metal | RSS 3* | $2.7 \mathrm{~K}-\mathrm{J}$ | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| R552 | OBK10105JT | CARBON | $1 / 4$ | $1 \mathrm{M}-\mathrm{J}$ | 1 |
| R553 | OBK10105JT | Carbon | $1 / 4$ | 1M-J | 1 |
| R554 | OBK10105JT | Carbon | $1 / 4$ | $1 \mathrm{M}-\mathrm{J}$ | 1 |
| R555 | 0CL04105JT | CARBON | $1 / 2$ | 1M-J | 1 |
| R556 | 0CL04105JT | CARBON | $1 / 2$ | $1 \mathrm{M}-\mathrm{J}$ | 1 |
| R557 | 0CL04105JT | CARBON | $1 / 2$ | 1M-J | 1 |
| R560 | OBK181502F | METAL | SN2C 1/4 | $15 \mathrm{~K}-\mathrm{F}$ |  |
| R561 | OBK181502F | METAL | SN2C 1/4 | $15 \mathrm{~K}-\mathrm{F}$ | 1 |
| R562 | OBK183923F | METAL | SN2C 1/4 | 392K-F | 1 |
| R563 | OBK188253F | METAL | SN2C 1/4 | 825K-F | 1 |
| R564 | OBK184641S | METAL | $1 / 4$ | $4.64 \mathrm{~K}-\mathrm{F}$ | 1 |
| R565 | OBK10103JT | CARBON | $1 / 4$ | 10K-J | 1 |
| R566 | OBK10104JT | CARBON | $1 / 4$ | 100K-J | 1 |
| R567 | OBK10103JT | Carbon | $1 / 4$ | 10K-J | 1 |
| R568 | OBK10154JT | CARBON | $1 / 4$ | 150k-J | 1 |
| R569 | OBKI0563JT | CARBON | $1 / 4$ | 56K-J | 1 |
| R570 | $0 C L 084 \mathrm{R} 7 \mathrm{JL}$ | FUSING | $1 / 2$ | 4.7-J | 1 |
| R571 | OEG054R7JH | FUSING | FMR $2 W$ | 4.7-J | 1 |
| R572 | OCL084R7JL | FUSING | $1 / 2$ | 4.7-J | 1 |
| R573 | OBK10153JT | CARBON | $1 / 4$ | $15 \mathrm{~K}-\mathrm{J}$ | 1 |
| R574 | OBK10471JT | CARBON | $1 / 4$ | 470-J | 1 |
| R575 | OBK10392JT | CARBON | $1 / 4$ | $3.9 \mathrm{~K}-\mathrm{J}$ | 1 |
| R576 | OCL04472JT | CARBON | $1 / 2$ | $4.7 \mathrm{~K}-\mathrm{J}$ | 1 |
| R577 | OCL04104JT | Carbon | $1 / 2$ | 100K-J | 1 |
| R578 | 0BK10333JT | CARBON | $1 / 4$ | $33 \mathrm{~K}-\mathrm{J}$ | 1 |
| R579 | OBK10471JT | CARBON | $1 / 4$ | 470-J |  |
| R580 | 0BK10182JT | CARBON | $1 / 4$ | $1.8 \mathrm{~K}-\mathrm{J}$ | 1 |
| R581 | OBK10471JT | CARBON | $1 / 4$ | 470-J |  |
| R582 | 0BK10471JT | CARBON | 1/4 | 470-J |  |
| R583 | OBK10474JT | CARBON | $1 / 4$ | $470 \mathrm{~K}-\mathrm{J}$ |  |
| R584 | OBK10752JT | CARBON | $1 / 4$ | $7.5 \mathrm{~K}-\mathrm{J}$ |  |
| R585 | OCL04562 JT. | CARBON | 1/4 | $5.6 \mathrm{~K}-\mathrm{J}$ |  |
| R586 | OEL09102JL | metal | RSS 2W | $1 \mathrm{~K}-\mathrm{J}$ |  |
| R587 | OBK10682JT | CARBON | $1 / 4$ | $6.8 \mathrm{~K}-\mathrm{J}$ |  |
| R588 | OBK10102JT | CARBON | $1 / 4$ | $1 \mathrm{~K}-\mathrm{J}$ |  |
| R901 | ONLI71R0K2 | CEMENT | M2S15N | 1-K |  |
| R902 | OBK10154JT | CARBON | $1 / 4$ | 150K-J |  |


| R903 | OBL08331JL | FUSING | $1 / 4$ | 330-J |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| R904 | OBL08680JL | FUSING | $1 / 4$ | 68-J | 1 |
| R905 | OBK12105JT | CARBON | $1 / 4$ | $1 \mathrm{~m}-\mathrm{J}$ | 1 |
| R906 | OBK12153JT | CARBON | $1 / 4$ | 15k-J | 1 |
| R907 | OBK12683JT | CARBON | $1 / 4$ | $68 \mathrm{~K}-\mathrm{J}$ | 1 |
| R908 | OBK12683JT | CARBON | $1 / 4$ | $68 \mathrm{~K}-\mathrm{J}$ | 1 |
| R909 | OBK12472JT | CARBON | 1/4 | $4.7 \mathrm{~K}-\mathrm{J}$ | 1 |
| R910 | 02G21302BB | SEMIFIXED | V2068TH1 | 33 3K-B | 1 |
| OR R910 | 02G21302EB | SEMIFIXED | VZ067TH1 | 33 3K-B | 1 |
| R911 | OCLO4333JT | CARBON | $1 / 2$ | $33 \mathrm{~K}-\mathrm{J}$ | 1 |
| R912 | OBK12153JT | CARBON | $1 / 4$ | $15 \mathrm{~K}-\mathrm{J}$ | 1 |
| R913 | OHLO9562JH | metal | RSS 5W | $5.6 \mathrm{~K}-\mathrm{J}$ | 1 |
| R914 | OCL04121JT | CARBON | $1 / 2$ | 120-J | 1 |
| R915 | OCL04333JT | CARBON | 1/2 | $33 \mathrm{~K}-\mathrm{J}$ | 1 |
| R916 | OBK10335JT | CARBON | $1 / 4$ | $3.3 \mathrm{M}-\mathrm{J}$ | 1 |
| R917 | OCG16226KM | SOLID | RC 1/2 | 22M-K | 1 |
| R918 | OBL081ROJL | FUSING | $1 / 4$ | 1.0-J | 1 |
| R919 | OEL32R22JM | METAL | BPR28 | 0.22-J | 1 |

VARIABLE RESISTORS

|  | VR101 | OBH13302MB | VARIABLE RVA0911 |  | 302M | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | VR102 | 02G21502BB | SEMIFIXED | V2068THl 53 | 5K-B | 1 |
| OR | VR102 | 02G21502EB | SEMIfixed | V2067TH1 53 | 5K-B | 1 |
|  | VR111 | OBH10302MB | variable r | A0911 | 302M | 1 |
|  | VR112 | 02G21502BB | SEmifixed | V2068TH1 53 | $5 \mathrm{~K}-\mathrm{B}$ | 1 |
| OR | VR112 | 02G21502EB | SEMIFIXED | V2067TH1 53 | 5K-B | 1 |
|  | VR121 | OBH13302MB | variable r | 10911 | 302M | 1 |
|  | VR122 | 02G21502BB | SEmifixed | V2068TH1 53 | $5 \mathrm{~K}-\mathrm{B}$ | 1 |
| OR | VR122 | 02G21502EB | Semifixed | V2067TH1 53 | 5K-B | 1 |
|  | VR431 | OBH13502MB | Variable rv | A0911 | 502M | 1 |
|  | VR432 | 02G21102BB | SEMIFIXED | V2068TH1 13 | 1K-B | 1 |
| OR | VR432 | 02G21102EB | SEmifixed | V2067TH1 13 | $1 \mathrm{~K}-\mathrm{B}$ | 1 |
|  | VR433 | OBH13501MB | Variable rv | A0911 | 501M | 1 |
|  | VR434 | 02G21502BB | SEMIFIXED | V2068TH1 53 | $5 \mathrm{~K}-\mathrm{B}$ | 1 |
| OR | VR434 | 02G21502EB | SEMIFIXED | V2067TH1 53 | 5K-B | 1 |
|  | VR435 | овH03103Mb | Variable rv | A0911 | 103M | 1 |
|  | VR531 | OBHI 3302 MB | variable RV | A0911 | 302M |  |


| VR532 | OBH13302MB | VARIABLE RVAO911 | 302 M | 1 |
| :--- | :--- | :--- | :--- | :--- |
| VR533 | OBH39103MB | VARIABLE RVAO911 | 103 M | 1 |
| VR570 | OBH13502MB | VARIABLE RVA0911 | 502 M | 1 |

## CAPACITORS

| C401 | OKM871ROMW | Electro. | KME | 50 V | $1 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C402 | OKPI 3223 JT | PLASTIC | ECQ-B | 111 | 223 J | 1 |
| C405 | OKP13183JT | Plastic | ECQ-B | 1 H | 183 J | 1 |
| C406 | 0KH811032F | CERAMIC | DD106 | 50 VF | 1032 | 1 |
| C421 | OKP13183JT | PLASTIC | ECQ-B | 1H | 183 J | 1 |
| C422 | OEM87471MW | ELECTRO. | KME | 16 V 4 | $470 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C431 | OIM87471MW | ELECTRO. | KME | 35 V 4 | $470 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C432 | 01M87101MW | Electro. | KME | 35 V | $100 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C434 | OKH81391KB | CERAMIC | DD104 | 50 V | 391 K | 1 |
| C435 | OKP13332JT | PLASTIC | ECQ-B | 1 H | 332 J | 1 |
| C436 | OKP13473JT | Plastic | ECQ-B | 1 H | 473 J | 1 |
| C437 | OGM714R7KF | tantal | DN | 25 V | $4.7 \mu \mathrm{~F}-\mathrm{K}$ | 1 |
| C438 | OGP47471M1 | Electro. | SXE | 25V | $470 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C443 | OKM871R0MW | Electro. | KME | 50 V | $1 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C444 | 0KP13104JT | PLASTIC | ECQ-B | 1H | 104 J | 1 |
| C446 | 0EP76330MT | Electro. | KME-BP | P16V | $33 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C447 | OEM87470MW | ELECTRO. | KME | 16 V | $47 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C448 | $01 \mathrm{M87101MW}$ | ELECTRO. | KME | 35 V | $100 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C449 | OEM87330MW | electro. | KME | 16 y | $33 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C501 | OKM871ROMW | Electro. | KME | 50 V | $1 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C520 | OKH81331KB | ceramic | DD104 | 50 V B | 331 K | 1 |
| C521 | OEP69330MT | electro. | $165 C$ |  | $33 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C531 | 0KH811032F | ceramic | DD106 | 50 VF | 1032 | 1 |
| C532 | OKP13822JT | PLASTIC | ECQ-B | 1 H | 822 J | 1 |
| C533 | $0 \mathrm{KP13272JT}$ | PLASTIC | ECQ-B | 111 | 272 J | 1 |
| C534 | OKP13472JT | PLASTIC | ECQ-B | 1 H | 472 J | 1 |
| C536 | OWH81561KB | ceramic | DD05 | 500 V B | B 561K |  |
| C540 | 02P44102KR | CERAMIC | DE090 | 5 1 KY | 102K | 1 |
| C541 | 02P44102KR | ceramic | DE090 | 51 kV | 102K |  |
| C542 | 02P44102KR | ceramic | DE090 | 51 KV | 102k | 1 |
| C543 | 02P44102KB | ceramic | DEOSO | 5 1KV | - 102K | 1 |


| C544 | 07H73752JF | PLASTIC | DKR | 1.8 KV | 752 J | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C545 | 061173133 JF | PLASTIC | DKR | 1.6 KV | 1331 | 1 |
| C546 | 0XG77333JF | Plastic | DTW | 630 V | 333 J | 1 |
| C547 | OXG77563JF | PLASTIC | DTW | 630V | 563J | 1 |
| C548 | OQG77564JF | Plastic | DTW | 200 V | 564J | 1 |
| C549 | 0QG77683JF | Plastic | DTW | 200 V | 683 J | 1 |
| C550 | ONP80275KF | Plastic | DFZ | 100\% | 275K | 1 |
| C551 | 0 NP 80275 KF | PLASTIC | DF2 | 100V | 275K | 1 |
| C552 | OUG77103GF | Plastic | DTW | 400 V | 1036 | 1 |
| C553 | OUG77153GF | PLASTIC | DTW | 400 V | 153G | 1 |
| C554 | OQK66334JF | PLASTIC | DHS | 200 V | 334 J | 1 |
| C555 | 07H73822JF | Plastic | DKR | 1.8 KV | 822 J | 1 |
| C560 | OPM87R47MW | electro. | KME | 160 V 0 | $0.47 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C561 | OQM87IR0MW | electro. | KME | 200 V | $1 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C562 | OGM874R7MW | electro. | KME | 25V | $4.7 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C563 | OKH811032F | CERAMIC | DD106 | 650 V | 1032 | 1 |
| C564 | 0Kh811032F | Ceramic | DD104 | 450 V | 1032 | 1 |
| C565 | 0NM874R7MW | electro. | KME | 100V | $4.7 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C566 | ONM874R7mW | electro. | KME | 100V | $4.7 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C570 | 0RP41220MW | electro. | KME | 250 V | $22 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C571 | OWH81222KB | ceramic | DD09 | 500 V | B 222 K | 1 |
| C572 | OEM87470MW | electro. | KME | 16 V | $47 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C573 | OEm87471mw | electro. | KME | 16 V | $470 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C574 | OIm87330Mw | electro. | KME | 35 V | $33 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C575 | ORP80104KF | plastic | DFZ | 250 V | 104K | 1 |
| C576 | OEM87471mm | Electro. | KME | 16 V | $470 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C577 | ONM871R0MW | Electro. | KME | 100 V | $1 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C578 | 0KH811032F | ceramic | DD106 | 650 V B | B $103 \%$ | 1 |
| C579 | OKH81471KB | ceramic | DD104 | 450 V B | B 471K | 1 |
| C580 | OKM871ROMW | electro. | KME | 50 V | $1 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C901 | ORP15473MS | Plastic | LFX | 250 WV | 473 M | 1 |
| C902 | ORL754722F | ceramic | DE0807 | 07F AC2 | 250V 4722 | 1 |
| C903 | ORL754722F | CERAMIC | DE0807 | 7F AC2 | 250V 4722 | 1 |
| C904 | OWH81222KB | ceramic | DD09 | 500 V B | B 222 K | 1 |
| C905 | 08P59102M1 | ELECTRO. | KMG | 180 V 1 | $1000 \mu \mathrm{~F}-\mathrm{M}$ | 1 |
| C906 | OPQ80101MH | electro. | Kila | 160 V | $100 \mu \mathrm{~F}$ | 1 |
| C907 | OWH81222KB | ceramic | DD09 | 500 V B | B 222 K | 1 |
| C908 | OEM87470MW | electro. | KME | 16 V | $47 \mu \mathrm{~F}-\mathrm{M}$ | 1 |

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REF.NO. PART NO.
DESCRIPTION
QTY.
```

| C909 | OPQ80101MW | ELECTRO. | KlIA 160V | $100 \mu \mathrm{~F}$ |
| :---: | :---: | :---: | :---: | :---: |
| C910 | 0KP47221Ml | ELECTRO. | SXE 50V | $220 \mu \mathrm{~F}-\mathrm{M}$ |
| C911 | 0GM87221MW | ELECTRO. | KME 25 V | $220 \mu \mathrm{~F}-\mathrm{M}$ |
| C913 | 0EM87221MW | ELECTRO. | KME 16V | $220 \mu \mathrm{~F}-\mathrm{M}$ |
| C914 | OWH81472KB | CERAMIC | DD12 500V | B 472 K |
| C915 | 00K58102kB | CERAMIC | DE7090b VA | -KC 102k |
| C916 | 00K58102KB | CERAMIC | DE7090b VA | 1-KC 102k |
| C917 | 00K58102KB | CERAMIC | DE7090B VAI | I-KC 102K |

TRANS I STORS

| Q401 | OCF2362122 | SILICON | 2SC3621 | 1 |
| :---: | :---: | :---: | :---: | :---: |
| Q402 | OAF2140822 | SILICON | 2SAl 408 | 1 |
| Q404 | OAH2109122 | SILICON | 2SA1091 | 1 |
| Q4 05 | 0AH20933S2 | SILICON | 2SA933S | 1 |
| Q521 | 0CH21740S2 | SILICON | 2SCl740S | 1 |
| Q530 | 0AH20933S2 | SILICON | 2SA933S | 1 |
| Q532 | OCF2268822 | SILICON | 2SC2688 | 1 |
| Q560 | OAH2109122 | SILICON | $2 \mathrm{SA1091}$ | 1 |
| Q561 | OCH2270522 | SILICON | 2SC2705 | 1 |
| Q570 | OAH20933S2 | SILICON | 2SA933S | 1 |
| Q571 | OAH20933S2 | SILICON | 2SA933S | 1 |
| Q572 | OAF2096622 | SILICON | 2SA966 | 1 |
| Q902 | OAF2109122 | SILICON | 2SA1091 | 1 |
| Q903 | OCF2261022 | SILICON | 2SC2610 | 1 |
| Q904 | OCF2261022 | SILICON | 2SC2610 | 1 |
| PC501 | 00J28414AB | (PHOTO-TR) | TLP521-2 GB | 1 |

DIODES

| D101 | 00J25891A1 | ISS133 | 1 |
| :--- | :--- | :--- | :--- |
| D102 | 00J25891A1 | ISS133 | 1 |
| D111 | $00 J 25891 A 1$ | ISS133 | 1 |
| D112 | 00J25891A1 | ISS133 | 1 |
| D121 | $00 J 25891 A 1$ | $1 S S 133$ | 1 |
| D122 | $00 J 25891 A 1$ | $1 S S 133$ | 1 |
| D401 | $00 J 25891 A 1$ | $1 S S 133$ | 1 |
| D402 | $00 J 25234 A 3$ | ERB44-04 | 1 |


| D403 | 00J25791A1 |  | ERB43-02 | 1 |
| :---: | :---: | :---: | :---: | :---: |
| D404 | 00325891A1 |  | 1SS133 | 1 |
| D405 | 00N25030T1 |  | 1SS244 | 1 |
| D406 | 00R25398R2 |  | 1 DL4 2 | 1 |
| D520 | 00J25891A1 |  | $15 S 133$ | 1 |
| D521 | 00J25891A1 |  | 1SS133 | 1 |
| D531 | 00J25234A3 |  | ERB44-04 | 1 |
| D561 | 00N25030T1 |  | 1SS244 |  |
| D562 | 00N25030T1 |  | 1SS244 | 1 |
| D563 | 00N25030T1 |  | $1 S S 244$ | 1 |
| D564 | 00N25030T1 |  | $15 S 244$ |  |
| D565 | 00N25030T1 |  | 1 SS244 | 1 |
| D566 | 00J25891A1 |  | 1SS133 | 1 |
| D567 | 00J25891A1 |  | 1SS133 | 1 |
| D570 | 00J25234A3 |  | ERB44-04 | 1 |
| D571 | 00J25791A1 |  | ERB43-02 | 1 |
| D572 | 00N25030T1 |  | 1SS244 | 1 |
| D573 | 00J25891A1 |  | $1 S S 133$ | 1 |
| D574 | 00J25891A1 |  | 1SS133 | 1 |
| D575 | OON25030T1 |  | 1SS244 | 1 |
| D576 | 00J25791A2 |  | ERB43-04 | 1 |
| D901 | 00J25234A3 |  | ERB44-04 | 1 |
| D902 | OON25030T1 |  | 1SS244 | 1 |
| D903 | 00N25030T1 |  | 1SS244 |  |
| D904 | 00J25045A2 |  | RU4AM | 1 |
| D905 | 00J25791A1 |  | ERB43-02 | 1 |
| BD901 | 08F25473A2 | (BRIGE) | DBF40E |  |
| 2D101 | 00N25734B5 | (ZENER) | HZS 12 NB 2 |  |
| 2D111 | 00N25734B5 | (zENER) | H 2 S 12 NB 2 |  |
| 2D121 | 00N25734B5 | (ZENER) | HZS12NB2 |  |
| 2D501 | OON25732B2 | (2ENER) | H2S6. 2 NB 2 |  |
| 2D901 | 00N25734B5 | (ZENER) | H2S12NB2 |  |
| 2D902 | 00N25732B7 | (zENER) | H2S7.5NB1 |  |
| 2D903 | 00N25732B2 | (ZENER) | H2S6.2NB2 |  |
| 2D904 | 00N25732B2 | (zENER) | H2S6.2NB2 |  |


| $T 530$ | $05 F 13171 A 1$ | (II. DRIVE) | 1 |
| :--- | :--- | :--- | :--- |
| $T 531$ | $05 F 13401 A 1$ | (FLYBACK) | 1 |
| $T 901$ | $05 F 13121 B 1$ | (CIIOKE) | 1 |

POSISTOR
PTH901 08J29031A1
PTH451C263BG8ROM140
1

THERMISTOR

NTH401 08J38097A1
NTH9O1 00N38508A1
NTH5D104LA 1
115-050-41205

COILS

| L530 | 05F16377A1 | (CHOKE) |  | 1 |
| :--- | :--- | :--- | :--- | :--- |
| L531 | 05 F 16378 Bl | (LINEAR) |  | 1 |
| L532 | 05 F 16379 Al | (CHOKE) | $930 \mu \mathrm{H}$ | 1 |
| L533 | 05 F 16376 Bl | (CHOKE) | $190 \mu \mathrm{H}$ | 1 |
| L570 | 00 K 00101 KO | (CHOKE) | ELO606RA-101K | 1 |
| L901 | 05 F 16382 Al | (CHOKE) | 1.5 m | 1 |
| L902 | 04 F 16086 AA | (CHOKE) | $125 \mu$ | 1 |

OTHER PARTS

| 1C101 | 05V00600B1 |  | ASS'Y PCB VIDEO | 1 |
| :---: | :---: | :---: | :---: | :---: |
| IC102 | 05V00186B1 |  | ASS.' Y PCB SYNC | 1 |
| 1C103 | 05V0022012 |  | ASS'Y PCB DEF | 1 |
| IC402 | 05002038A2 |  | ASS'Y PCB 1C402 | 1 |
| F901 | OOF32560A3 | FUSE | TSC B 125V 3A | 1 |
| F902 | O0F32560A5 | FUSE | TSC B 125V 2A | 1 |
| CF901 | 08N51217T1 | FUSE-CLIP | PFC5000-0202 | 2 |
| CF902 | 08N51217T1 | FUSE-CLIP | PFC5000-0202 | 2 |
| CN101 | 00J40190a5 | CONNECTOR | B6BEH | 1 |
| CN103 | 00j40643A1 | CONNECTOR | B1\|B-PH-K-S | 1 |

REF.NO. PART NO.
DESCRIPTION
QTY.

| CN104 | 00J40645A1 | CONNECTOR | S $11 \mathrm{~B}-\mathrm{PH}-\mathrm{K}-\mathrm{S}$ | 1 |
| :---: | :---: | :---: | :---: | :---: |
| CN105 | 00J40643A4 | CONNECTOR | B14B-Pll-K-S | 1 |
| CN106 | 00J40645A4 | CONNECTOR | S14B-Pll-K-S | 1 |
| CN402 | OOF40831A1 | CONNECTOR | B2P-VII | 1 |
| CN530 | OOF40019A3 | CONNECTOR | YP115S-4P | 1 |
| CN531 | OOF40019A3 | CONNECTOR | TP115S-4P | 1 |
| CN540 | OOF40831A7 | CONNECTOR | B8P-VII | 1 |
| CN541 | 00F40831A7 | CONNECTOR | B8P-VH | 1 |
| CN550 | 00F44547A1 | CONNECTOR | GT PIN | 1 |
| CN551 | 00F44547A1 | CONNECTOR | GT PIN | 1 |
| CN901 | 00F40916A1 | CONNECTOR | B2P3-VH | 1 |
| CN902 | 00F40019A1 | CONNECTOR | YP115S-2P | 1 |
| CN903 | OOF40916A4 | CONNECTOR | B5P9-VH | 1 |


| TP1 | OOJ44862A2 | PIN-TERMINAL | RT-01T-1.0B | 1 |
| :--- | :--- | :--- | :--- | :--- |
| TP2 | 00 J 44862 A 2 | PIN-TERMINAL | RT-01T-1.0B | 1 |
| TP3 | $00 \mathrm{~J} 44862 A 2$ | PIN-TERMINAL | RT-01T-1.0B | 1 |
|  |  |  | SSSS91 | 1 |


| 05U01898A2 | ASS'Y ll. OUT | (Q533) | 1 |
| :---: | :---: | :---: | :---: |
| 05V01648A1 | ASS'Y CN402 |  | 1 |
| 05V02180A1 | ASS'Y CN550 |  | 1 |
| 05V01897A2 | ASS'Y PVD |  | 1 |
| 05V01650A1 | ASS'Y CN540 |  |  |
| 05V02175A1 | ASS'Y CN102 |  |  |
| 05V02176A1 | ASS'Y CN570 |  |  |
| 05V02416A1 | ASS'Y CN901S |  |  |

REF．NO．PART NO．
DESCR1PT1ON
QTY．

C5F1838GA DEFLE－YOKE YS－58807 1 OOF52509A1 C．P－MAGNET YS6634／2771831 I 05D03444A1 RUBBER－WEDGE－31 5D03444A1 3 $\begin{array}{llll}\text { O5U01695D1 } & \text { ASSY－COATING EARTII } 5001695-1 & 1 \\ \text { OONO8110A1 } & \text { ACETATE TAPE No．} 156 \text { 日東巾 } 19 \mathrm{~mm} \quad 1=100 \mathrm{~mm} & 2\end{array}$ OOF08554A1 GLASS TAPE No． $188 \mathrm{UL} \pitchfork 25 \mathrm{~mm} \quad 1=40 \mathrm{~mm} \quad 1$ $\begin{array}{llll} & & 15 \\ \text { OFN803010D } & \text { TAP－TITE－P－TP } & 3 \times 10 & 1 \\ \text { OFJ924016N } & \text { TAP－TITE－P－BIND } & 4 \times 16 & 16\end{array}$ 08N54089A CLAMPER WIRE SADDLE LWS－2C 3 OON54335A1 LOCKING WIRE SADDLE LHS－2C

|  |  | 1 |  |
| :--- | :--- | :--- | :--- |
| 05U01694E1 | ASSY－D．G－COIL | $5001694-1$ | 4 |
| 05D05695A1 | HOLDER－18 | $5 D 05695$ | 2 |
| 05CO2275B1 | BRACKET SGT | $5 C 02275$ | 1 |
| 05B00893A1 | BASE FSG | $5 B 00893$ | 2 |
| 05B00823B1 | STAY－SG | $5 B 00823$ | 1 |
| 05D06471A1 | PCB－11OLDER | $5 D 06471$ | 1 |
| 05D06724A1 | VR－COVER－FSG |  | 4 |
| 05D06224A1 | CRT SCREW |  | 4 |
| OFF706012D | SCREW－SEMS－P－PAN | M6 $\times 12$（SW付） | 4 |
| OFJ924008D | TAP－TITE－P－BIND | $4 \times 8$ | 4 |

05D06327A1 LABEL－S 1
05006102 Al CN LABEL 4
05D06101A1 LABEL－HV 1
02D51526A1 LABEL－B $\quad$ No．901A $\quad \mathrm{L}=350 \mathrm{~mm} \quad 2$
08 F 08342 Al フイラメクトテーブードタランパー 1 OOR54072AI CLAMPER

| 05A00362G1 | PCB－MAIN | 5400362 | 1／2 |
| :---: | :---: | :---: | :---: |
| 05C02108A1 | PCB－CRT | 5C02108 | $1 / 2$ |
| 05V02619al | ASSY CN104F | （ 900 mm n－ネス） |  |
| 05V02620A1 | ASSY CNIO6F | （900mm ハーネス） | 2 |
| 05D06408A1 | SUPPORT－VR |  | 2 |
| 00F55550A1 | PLASTI－LIVET | T No615 ${ }^{\text {¢ }} 4$ |  |

## APPENDIX D

COMMUNICATION PLAY USING OPTICAL CABLES

## COMMUNICATION PLAY

The following Installation Precautions should be noted:

1. When linking a number of machines, be sure to supply sufficient power for the corresponding number of machines. This will be approximately 1000 Watts (4 Amps @ 240V) for each Daytona Twin machine.
2. Because of the length of the Fibre Optic communication cable, the distance in between the machines will be approximately 1.2 M or less.

## COMMUNICATIONS CABLE CONNECTIONS (VIEWED FROM REAR)



4P LINK SYSTEM


6P LINK SYSTEM


8P LINK SYSTEM

## CONNECTIONS WITH OTHER CABINETS

To gain access to the Fibre Optic RX and TX connectors at the rear of the Player 1 and Player 2 cabinets, first remove the Wire Cover (Part B). The Communication cable should be feed through the cut-out in the fixed part of the wire cover.

When handling and connecting the Communication links be careful NOT TO CAUSE A SHARP BEND in these cables.

View on rear of the Daytona machine with the Wire Cover Part B removed.


## SETTING COMMUNICATIONS LINK

Place all linked machines into TEST MODE and select GAME SYSTEM.
Set LINK ID to MASTER for the first machine in the line and SLAVE for all subsequent machines.

Set CAR NUMBER sequentially from number 1 (MASTER machine). If the same car number is set for 2 or more cabinets, or if the sequential order is incorrect, the game display, etc. will be confused.

Set CABINET to TWIN.

## SETTING GAME DIFFICULTY

In the case of communications PLAY, THE GAME DIFFICULTY SETTING IS MADE BY THE master CABINET. Even if the setting is changed on the SLAVE machines, the setting will not be effective for the game. Changing the setting on the MASTER cabinet causes all of the SLAVE machines to change their settings by following the MASTER.

## CAUTIONS TO BE HEEDED WHEN IN TEST MODE

The machines connected for the communications play perform a NETWORK check at the time when the power is turned on and when exiting test mode. All linked machines must perform this test at the same time. Therefore all machines must be powered up or exit test mode at the same time. If one machine requires testing, all remaining machines should be put into test mode. When the test is finished for the unit requiring test, all of the machines should exit test mode at the same time.

## APPLICATION OF SEAT \# DISPLAY DECALS

After the Daytona machines have been linked together for Communication Play the seat number Decals should be applied so that they line up in a sequential order No. 1, No. 2, No. 3 and so on starting from the left hand side when viewed from the front of the machines. These Decals are supplied in the Installation Kit as AW1130.


