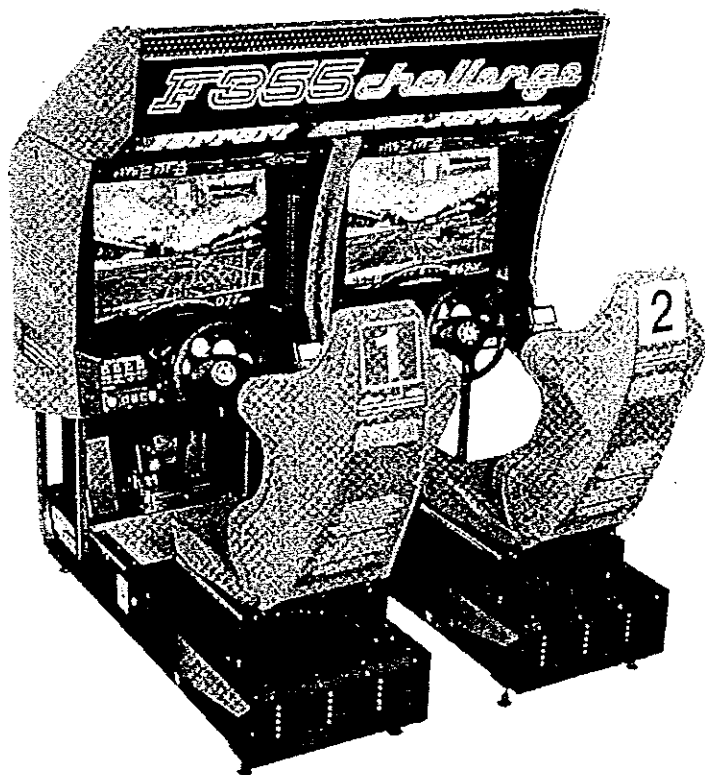


SERVICE MANUAL

SEGA

F355 challenge

TWIN TYPE



PROPERTY OF
SEGA SERVICE CENTRE
DO NOT REMOVE



IMPORTANT!

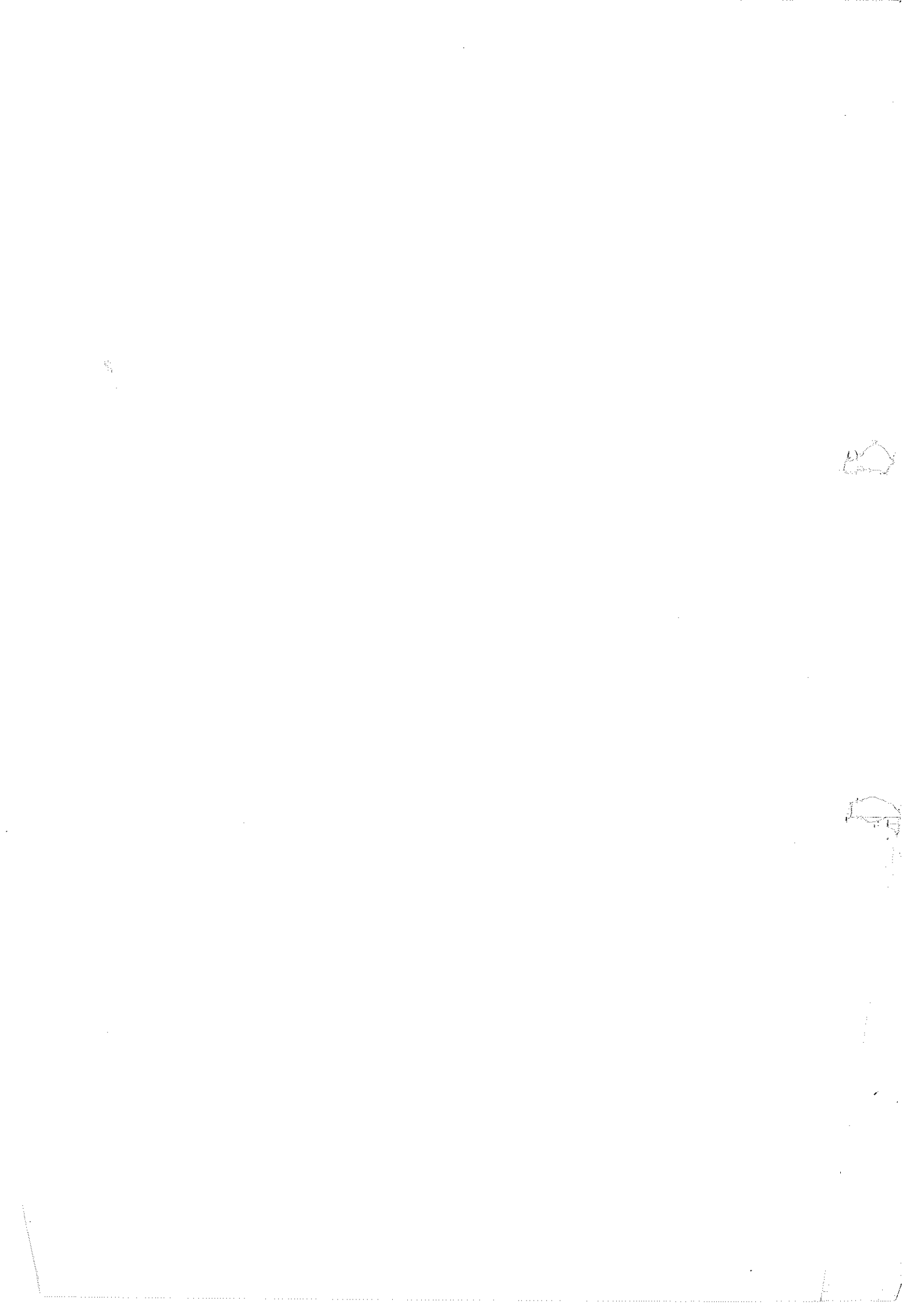
Before using this product, read this SERVICE MANUAL carefully to understand the contents stated herein. After reading this manual, be sure to keep it available nearby the product or somewhere convenient in order to be able to refer to it whenever necessary.

Manufactured in the UK by

SEGA



MANUFACTURING DIVISION (U.K.)



SAFETY WARNINGS

A

CH

D

BETRIEBSANLEITUNG FÜR VIDEO-GAMES

Diese Betriebsanleitung gehört zum Gerät und darf nicht entfernt werden !!

DK

BETJENINGSVEJLEDNING FOR VIDEO-GAMES

Denne betjeningsvejledning hører til apparatet og må ikke fjernes !!

E

INSTRUCCIONES DE SERVICIO PARA JUEGOS DE VIDEO

Estas instrucciones de servicio son parte del aparato y no deben perderse!!

F

B

CH

INSTRUCTIONS DE SERVICE POUR JEUX VIDEO

Ces instructions de service font partie intégrante de l'appareil et doivent toujours l'accompagner !!

FIN

VIDEOPELIAUTOMAATTIEN KÄYTTÖOHJEET

Nämä käyttöohjeet kuuluvat laitteeseen eikä niitä saa poistaa!!

I

CH

ISTRUZIONI D'USO PER VIDEOGAMES

Questo manuale di istruzioni fa parte della macchina e non deve essere rimosso da essa!!

N

BRUKERVEILEDNING FOR VIDEO GAMES

Denne brukerveiledningen hører til maskinen og må ikke fjernes !!

NL

GEbruIKSAANWIJZING VOOR VIDEOGAMES

Deze gebruiksaanwijzing hoort bij het toestel en mag niet verwijderd worden!!

P

INSTRUÇÕES DE SERVIÇO PARA OS JOGOS DE VIDEO

Estas instruções fazem parte integral do aparelho e dele não podem ser retiradas!!

S

BRUKSANVISNING FÖR TV-SPEL

Denna bruksanvisning hör till apparaten och får inte avlägsnas!

GR

ΟΔΗΓΙΕΣ ΛΕΙΤΟΥΡΓΙΑΣ ΓΙΑ VIDEO-GAMES

Οι παρούσες οδηγίες λειτουργίας ανήκουν στη συσκευή και δεν επιτρέπεται να απομακρυνθούν!!

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1. Vorwort

Diese Betriebsanleitung gilt für Theken-, Stand- oder Sitz-Video-Spielautomaten. Ersatzteilnummern, Serviceanweisungen und Einstellungen siehe separat beiliegendes Original-Handbuch. Im Zweifelsfall insbesondere auch bei Verständnisschwierigkeiten sprachlicher oder sonstiger Art mit dem Original-Handbuch unbedingt die fachliche Hilfe Ihres Händlers in Anspruch nehmen!

Änderungen in diesem Handbuch durch Neuauflagen vorbehalten.

EC-Konformitätserklärung

Dieses Gerät entspricht den europäischen Sicherheitsrichtlinien und Standards. Es fällt nicht unter die Maschinenrichtlinie.

2. Sicherheitshinweise

2.1. Begriffsdefinition



WARNUNG !! Nichtbeachtung kann zu Personenschäden oder tödlichen Verletzungen führen.

2.2. Allgemeine Erläuterungen

Eingriffe in das Gerät nur durch Elektrofachkraft, sonst besteht Verletzungsgefahr sowie Gefahr einer dauerhaften Beschädigung. Die Folge wären teure Reparaturen, Austausch von Systemkomponenten, Erlöschen der Gewährleistungsansprüche.

Installation und Reparaturarbeiten nur durch Elektrofachkraft, Servicearbeiten nur durch eingewiesenes Personal. Der Eigentümer dieses Gerätes muß sicherstellen, daß alle Personen die mit der Aufstellung, Inbetriebnahme, Wartung, Reparatur und Instandhaltung des Gerätes zu tun haben, entsprechend qualifiziert sind und vor Arbeitsbeginn unbedingt die nötigen Sicherheitshinweise und dazugehörigen Kapitel des Handbuches gelesen und verstanden haben.

Betriebsanleitung unbedingt an sicherer Stelle für den späteren Gebrauch aufbewahren !

Bei unsachgemäßer Handhabung, bestimmungswidriger Verwendung und eigenmächtigen Umbauten wird keinerlei Haftung für Unfälle, Verletzungen und Beschädigungen übernommen! Eigenmächtige Umbauten und Veränderungen des Automaten sind aus Sicherheitsgründen ausdrücklich verboten.

Bei weiteren Fragen oder im Zweifelsfall Kontakt zu Ihrem Händler aufnehmen.

Die Sicherheitshinweise sind strikt einzuhalten ! Es geht um Ihre Sicherheit.

2.3. Grundsätzliche Sicherheitshinweise

Gerät darf nur betrieben werden, wenn Aufstellung vorschriftsmäßig und in Übereinstimmung mit dem Handbuch erfolgte.

Betriebsspannung und -frequenz des Gerätes muß mit der Netzspannung und -frequenz übereinstimmen. Elektrische Daten siehe Typenschild an der Geräterückseite. Gerät nur an ordnungsgemäß installierter, abgesicherter und geerdeter Netzsteckdose anschließen.

Aufstellung und Inbetriebnahme nur innerhalb geschlossener, trockener Räume! Gerät darf nur gewerblich genutzt werden!

Beschädigte oder fehlende Warnhinweise am Gerät sind sofort zu ersetzen.



WARNUNG !! Implosionsgefahr der Bildröhre und Neonröhren

Aufstellung nur auf stabilem, tragfähigem Untergrund, ggf. befestigen. Umstürzendes Gerät kann die Implosion der Bild- oder Neonröhren zur Folge haben. Umherfliegende Glassplitter können zu schwersten Verletzungen führen.



WARNUNG !! Gefahr durch elektrischen Schlag

Vor Öffnen des Gerätes IMMER den Netzstecker aus der Steckdose ziehen! Netzstecker niemals mit nassen Händen berühren. Geräte-Rückwand darf nur von Elektrofachkraft geöffnet werden. Lebensgefährliche, berührbare Hochspannungen im Inneren des Gerätes, die auch nach Ziehen des Netzsteckers anstehen. Nichtbeachtung kann zu Tod oder schweren Verletzungen führen.



WARNUNG !! Brandgefahr

Sicherungen nur gegen vorgeschriebene Sicherungen ersetzen. Lüftungsschlitze des Spielautomaten niemals blockieren. Umgebungstemperatur darf 40°C nicht überschreiten. Netzstromkreis und Zuleitungen nicht überlasten.

Bei Defekt sofort den Netzstecker aus der Steckdose ziehen und Reparatur nur, von Elektrofachkraft durchführen lassen. Nur am Netzstecker, nicht am Kabel ziehen.

Steckverbindungen im Inneren des Gerätes, im Fall einer Fehlersuche, niemals unter Spannung abziehen oder aufstecken. Reparatur grundsätzlich im spannungslosen Zustand!

Nur Original-Ersatzteile verwenden.

Nichtbefolgung der oben genannten Punkte kann lebensgefährlich sein !

3. Geräteüberprüfung

3.1. Kontrolle nach Anlieferung

Gerät direkt bei der Anlieferung auf Transportschäden untersuchen. Sichtbare Beschädigungen auf den Speditionspapieren des anliefernden Spediteurs vermerken oder unmittelbar nach Erhalt der Ware melden, um Ihre Ansprüche zu sichern.

Gerät öffnen und sämtliche Baugruppen und Steckverbinder auf ordnungsgemäßen Sitz prüfen.

Beigepacktes Montagmaterial aus dem Geräteinneren oder der Kassenbox entnehmen.

Entspricht der mitgelieferte Netzstecker nicht der landesüblich vorgeschriebenen Norm, passenden Netzstecker an das Netzkabel anschließen.



WARNUNG !! Gefahr durch elektrischen Schlag

Anschluß des Netzsteckers nur durch Elektrofachkraft. Bei Nichtbeachtung gefährden Sie sich und andere!

Falls vorhanden, separates Kopfteil oder Sitzeinheit der Verpackung entnehmen. Montage dieser Teile erst am Aufstellplatz, sonst Beschädigung beim Transport.

4. Transport, Aufstellung und Inbetriebnahme

4.1. Wahl des Aufstellortes und Transport

Aufstellung und Inbetriebnahme nur innerhalb geschlossener, trockener Räume! Aufstellung

im Freien oder in feuchten / nassen Räumen ist strikt untersagt. Eindringende Feuchtigkeit kann zu Unfällen durch elektrischen Schlag oder Fehlern innerhalb des Gerätes führen.

Transportwege und -möglichkeiten am Aufstellplatz vor Transport prüfen. Bei Geräten mit Transportrollen besondere Vorsicht bei abschüssigem Boden.

Gerät nur mit einer ausreichenden Anzahl Personen bewegen. Vorsicht bei tiefer hängenden Beleuchtungskörpern.

Gerät auf ebenem, tragfähigem Untergrund aufstellen. Lüftungsöffnungen auf der Geräterückseite nicht behindern. Ausreichenden Wandabstand (min. 10 cm) einhalten.

Gerät nicht plazieren in der Nähe von:

- a) lebensrettenden Einrichtungen, wie z. B.:
 - Notausgängen,
 - Feuerlöschern etc.
- b) Behältern mit leicht entzündlichen Stoffen, Wasser oder Chemikalien,
- c) Wärmequellen, wie z. B.:
 - Heizkörpern
 - Öffnungen von Klimaanlage,
 - Schaufenstern mit direkter Sonneneinstrahlung etc.

Gerät keiner Belastung aussetzen, die zu Funktionstörung oder Defekt führt, wie z. B.:

- starker Vibration,
- extremer Staub- oder Schmutzbelastung,
- direkter Sonneneinstrahlung oder Hitze,
- Regen oder Feuchtigkeit,
- starker Magnetismus oder Funkwellen.

Direkt am Geräteaufstellplatz muß eine ordnungsgemäß installierte, geerdete, abgesicherte Netzsteckdose vorhanden sein.

Den Stromkreis, an dem das Gerät angeschlossen wird, nicht überlasten.

Netzkabel derart verlegen, daß niemand darüber stolpert. Nichtbeachtung kann zu schweren Verletzungen oder zur Beschädigung des Netzkabels führen.

Netzkabel nicht scharf knicken oder schwere Gegenstände darauf stellen, sonst Beschädigung der Isolation, mögliche Folge, berührbare Netzspannung, Kurzschluß und dadurch bedingte Feuer.

4.2. Aufstellung und Montage des Gerätes

Gerät plazieren. Netzstecker noch nicht einstecken, erst nach abgeschlossener Aufstellung!



WARNUNG !! Implosionsgefahr der Bildröhre und Neonröhren

Unbedingt die Sicherheitshinweise in Kapitel 2.3 beachten.

4.2.1. Video-Thekengeräte werden komplett montiert geliefert. Keine weiteren Montagen notwendig. Für sicheren Standplatz sorgen!

4.2.2. Montagehinweise Video-Standgerät und Video-Sitzgeräte

Falls vorhanden, separate Zubehöerteile sicher mit den im Beipack befindlichen Schrauben am Gerät befestigen. Kopfteil während der Montage von mindestens 2 Helfern sichern lassen, Steighilfe, z. B. Leiter oder Tritt benutzen. Falls vorhanden, Steckverbindungen der Zubehöerteile aufstecken.

Schutzleiterverbindungen sicher herstellen.

Montagehinweise siehe Original-Handbuch.

Im Zweifelsfall unbedingt die fachliche Hilfe Ihres Händlers in Anspruch nehmen!

4.2.2.1. Video-Standgerät, mögliche Lieferformen:

- a) komplett montiert und / oder
- b) mit separat beige-packtem Kopfteil (beleuchtet oder unbeleuchtet) und / oder
- c) mit separat beige-packter Bedienungseinheit

4.2.2.2. Video-Sitzgerät, mögliche Lieferformen:

- a-c) wie Video-Standgerät und / oder zusätzlich
- d) mit separat beige-packter Sitzeinheit

4.3. Inbetriebnahme

Falls vorhanden, mit den höhenverstellbaren Fußschrauben das Gerät genau nivellieren. Das Gerät muß absolut fest auf dem Untergrund stehen. Bei glatten Fußböden Gummikappen unter den Gerätefüßen benutzen.

Alle Baugruppen und Steckverbinder auf festen Sitz prüfen. Besonders Schutzleiterverbindungen aller berührbaren Metallteile von Elektrofachkraft auf festen Sitz prüfen lassen!

Hauptschalter ausschalten. Netzstecker erst nach Sicherstellung aller vorgenannter Punkte einstecken.

Hauptschalter einschalten. Bei unnormalem Geräusch, Rauch oder ungewöhnlichem Geruch nach dem Einschalten, sofort den Netzstecker aus der Steckdose zu ziehen und Elektrofachkraft zu Rate ziehen. Im Zweifelsfall unbedingt Ihren Händler kontaktieren.



WARNUNG !! Brandgefahr

Auf keinen Fall das Gerät in diesem Zustand weiter betreiben.

4.4. Einstellungen

Programm- bzw. modellbedingte Einstellungen dem beiliegendem Original-Handbuch entnehmen.



WARNUNG !! Gefahr durch elektrischen Schlag

Unbedingt die Sicherheitshinweise in Kapitel 2 beachten.

Im Zweifelsfall unbedingt die fachliche Hilfe Ihres Händlers in Anspruch nehmen!

5. Inspektion, Wartung und Pflege

5.1. Allgemeine Hinweise



WARNUNG !! Gefahr durch elektrischen Schlag

Unbedingt die Sicherheitshinweise in Kapitel 2 beachten.

Zustand des Netzkabels regelmäßig prüfen. Bei beschädigtem Kabel oder Netzstecker, Gerät sofort außer Betrieb nehmen und durch Elektrofachkraft reparieren lassen.

Unbedingt die Warnhinweise auf Vorhandensein und Lesbarkeit überprüfen, ggf. ersetzen (siehe Kapitel 8).

5.2. Wartung

Das Gerät selbst ist wartungsfrei.

5.3. Reinigen des Gehäuses und des äußeren Bildschirms

1. Gerät ausschalten und Netzstecker ziehen!
2. Gehäuse und äußeren Bildschirm mit weichem, feuchtem (nicht nassem) Tuch und milden Reinigungsmittel reinigen (keine Lösungsmittel-, säure- oder scheuermittelhaltigen Reiniger verwenden).

6. Service

6.1. Allgemeine Hinweise



WARNUNG !! Gefahr durch elektrischen Schlag
Unbedingt die Sicherheitshinweise in Kapitel 2 beachten.

Bei Defekt sofort den Netzstecker aus der Steckdose ziehen und Reparatur nur von Elektrofachkraft durchführen lassen. Servicehinweise siehe Original-Handbuch.

Im Zweifelsfall unbedingt die fachliche Hilfe Ihres Händlers in Anspruch nehmen!

6.2. Austausch defekter Beleuchtungskörper

1. Gerät ausschalten und Netzstecker ziehen!
2. Vorsicht, Beleuchtungskörper kann heiß sein!
3. Beleuchtungskörper nur durch vorgeschriebene Teile austauschen. Servicehinweise siehe Original-Handbuch.

7. Ausserbetriebnahme

7.1. Allgemeine Hinweise



WARNUNG !! Gefahr durch elektrischen Schlag
Unbedingt die Sicherheitshinweise in Kapitel 2 beachten.

7.2. Demontage

Netzstecker ziehen. Alle im Kapitel 4.2. beschriebenen Zubehörteile in umgekehrter Reihenfolge demontieren. Kopfteil während der Demontage von min. 2 Helfern sichern lassen.

7.3. Umstellung

Umtransport und Wiederinbetriebnahme wie im Kapitel 4 beschrieben durchführen.

7.4. Entsorgung

Durch zugelassenes Fachunternehmen entsorgen lassen.

8. Warnhinweise

Warnhinweise, in Text oder Bild, als Aufkleber, Aufdruck und / oder in Form dieser Betriebsanleitung unterliegen natürlichem Verschleiß. Der Betreiber trägt die Verantwortung, daß sie vorhanden und stets lesbar sind.

Beschädigte oder fehlende Warnhinweise sind sofort zu ersetzen. Kontaktieren Sie im Bedarfsfall Ihren Händler.

Betriebsanleitung unbedingt an sicherer Stelle für den späteren Gebrauch aufbewahren !

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8. **Advarselshenvisninger**

1. Forord

Denne betjeningsvejledning gælder for video-spilleautomater som bordmodel, eller modeller til stående eller siddende betjening. Reservedelsnumre, servicehenvisninger og indstillinger, se den separat vedlagte originalhåndbog. I tvivlstilfælde især ved forståelsesvanskeligheder af sproglig eller anden art vedrørende originalhåndbogen kontakt ubetinget forhandleren for at opnå faglig hjælp!

Med forbehold mod ændringer i denne håndbog ved nyoplag.

EC-konformitetserklæring

Dette apparat overholder de europæiske sikkerhedsretningslinier og standarder. Det falder ikke ind under retningslinier for maskiner.

2. Sikkerhedshenvisninger

2.1. Begrebsdefinition



ADVARSEL !! Ignorering kan føre til personskader eller livsfarlige kvæstelser.

2.2. Generelle bestemmelser

Indgreb i apparatet må kun foretages af elektrofagfolk, ellers består der fare for kvæstelser samt fare for blivende skader. Følgen heraf er dyre reparationer, udskiftning af systemkomponenter, tab af garantirettigheder.

Installation og reparationsarbejder må kun foretages af elektrofagfolk, servicearbejder kun af instrueret personale. Ejeren af dette apparat skal sørge for, at alle personer, der er beskæftiget med opstilling, idrifttagning, vedligeholdelse, reparation og service, er tilsvarende kvalificeret og at de før arbejdets påbegyndelse ubetinget har læst og forstået de nødvendige sikkerhedshenvisninger og dertil hørende kapitler i håndbogen.

Betjeningsvejledningen skal ubetinget opbevares på et sikkert sted for senere benyttelse!

Ved usagmæssig betjening, ikke formålsbestemt anvendelse og egenmægtige ombygninger overtages ingen garanti for uheld, tilskadekomst og beskadigelser! Egenmægtige ombygninger og ændringer af automaten er af sikkerhedsmæssige grunde udtrykkeligt forbudt.

Ved yderligere spørgsmål eller i tvivlstilfælde optag kontakt med Deres forhandler.

Sikkerhedshenvisningerne skal ubetinget overholdes ! Det gælder Deres sikkerhed.

2.3. Principielle sikkerhedshenvisninger

Apparatet må kun benyttes, hvis opstillingen er udført forskriftsmæssigt og i overensstemmelse med håndbogen.

Driftsspænding og -frekvens for apparatet skal være i overensstemmelse med den lokale netspænding og -frekvens. Vedrørende elektriske data se typeskiltet på apparatets bagside. Apparatet må kun tilsluttes til en forskriftsmæssig installeret, afsikret og jordforbundet netstikdåse.

Opstilling og idrifttagning er kun tilladt i lukkede, tørre lokaler! Apparatet må kun anvendes erhvervmæssigt!

Beskadigede eller manglende advarselshenvisninger på apparatet skal omgående erstattes med nye.



ADVARSEL !! Implosionsfare for billedrør og neonrør

Opstilling må kun foretages på et stabilt, bæredygtigt underlag, i givet fald forstærkes dette. Hvis apparatet vælter kan dette have implosion af billed- og neonrør til følge. Omkringflyvende glassplinter kan medføre de alvorligste kvæstelser



ADVARSEL !! Fare for elektriske stød

Før åbning af apparatet skal netstikket ALTID trækkes ud af stikdåsen! Berør aldrig netstikket med våde hænder. Apparatets bagvæg må kun åbnes af elektrofagfolk. Livsfarlige, berørbare højspændinger inde i apparatet, der også er tilstede efter af netstikket er trukket. Ignorering kan medføre død eller svære kvæstelser.



ADVARSEL !! Brandfare

Sikringer må kun udskiftes med foreskrevne sikringer. Udluftningsslidser på spilleautomaten må aldrig blokeres. Omgivelsestemperaturen må ikke overskride 40°C. Netinstallation og tilledninger må ikke overbelastes.

Ved en defekt trækkes netstikket omgående ud af stikdåsen og en reparation må kun udføres af elektrofagfolk. Træk kun i netstikket, ikke i ledningen.

Stikforbindelser inde i apparatet må, ved en eventuel fejlsøgning, aldrig skilles ad eller forbindes under spænding. Reparationer må kun foretages i spændingsløs tilstand!

Anvend kun originale reservedele.

Ignorering af de ovenfor nævnte punkter kan være livsfarligt !

3. Apparatcheck

3.1. Kontrol ved levering

Apparatet undersøges omgående for transportskader ved levering. For at sikre Deres erstatningskrav, skal synlige beskadigelser noteres på speditionspapirerne fra speditøren eller meldes umiddelbart efter modtagelse af varen.

Apparatet åbnes og samtlige monteringsenheder og stikforbindelser kontrolleres for forskriftsmæssig og korrekt montering.

Vedlagte monteringsmateriale tages ud af apparatet eller kasseboksen.

Svarer det leverede netstik ikke til den lokalt foreskrevne norm, monteres et passende netstik på netledningen.



ADVARSEL !! Fare for elektriske stød

Tilslutning af netstikket må kun foretages af elektrofagfolk. Ved ignorering består fare for Dem og andre!

Hvis forhåndenværende, tages den separate overdel eller siddeenhed ud af emballagen. For at undgå transportskader, foretages montering af disse dele først på opstillingsstedet.

4. Transport, opstilling og idrifttagning

4.1. Valg af opstillingssted og transport

Opstilling og idrifttagning kun i lukkede, tørre lokaler! Opstilling i det fri eller i fugtige/våde rum er strengt forbudt. Indtrængende fugtighed kan føre til uheld gennem elektriske stød

eller fejl i apparatets indre. Undgå direkte sollys.

Transportveje og -muligheder på opstillingsstedet kontrolleres før transporten. Ved apparater med transportruller udvises særlig forsigtighed ved skrånende gulve.

Apparatet må kun bevæges med et tilstrækkeligt antal personer. Pas på lavthængende belysning.

Apparatet opstilles på en jævn, bæredygtig undergrund. Udluftningsåbningerne på bagsiden af apparatet må ikke tildækkes. Tilstrækkelig vægafstand (min. 10 cm.) skal overholdes.

Apparatet må ikke placeres i nærheden af:

- a) livsreddende indretninger, som f.eks.
 - nødudgange,
 - ildslukkere etc.
- b) beholdere med letantændelige stoffer, vand eller kemikalier.
- c) varmekilder, som f.eks.
 - radiatorer
 - åbninger fra klimaanlæg,
 - udstillingsvinduer med direkte sollys etc.

Apparatet må ikke udsættes for belastninger, der fører til funktionsforstyrrelser eller defekter som f.eks.

- stærk vibration,
- ekstrem støv- eller smudsbelastning,
- direkte sollys eller varme,
- regn eller fugtighed,
- stærke magnetfelter eller radiobølger.

Direkte på opstillingsstedet for apparatet skal der findes en korrekt installeret, jordforbundet, afsikret netstikdåse.

Netinstallationen, til hvilket apparatet er tilsluttet, må ikke overbelastes.

Netledningen forlægges således, at der ikke opstår snublefare. Ignorering kan føre til alvorlige kvæstelser eller til beskadigelse af netledningen.

Undgå skarpe knæk på netledningen og anbring ikke denne under tunge genstande, da der ellers er fare for beskadigelse af isolationen. Mulige følger er fritliggende netspænding, kortslutning og deraf betinget ildebrand.

4.2. Opstilling og montering

Apparatet placeres på opstillingsstedet. Netstikket må først anbringes i netstikdåsen efter afsluttet opstilling!



ADVARSEL !! Implosionsfare for billedrør og neonrør

Overhold ubetinget sikkerhedshenvisningerne i kapitel 2.3.

4.2.1. Videoapparat, bordmodeller leveres komplet monteret. Ingen yderligere montering nødvendig. Sørg for en sikker placering!

4.2.2. Monteringshenvisninger for videoapparat til stående og siddende betjening

Hvis forhåndenværende, befæstiges separate tilbehørsdele sikkert på apparatet med de vedlagte skruer. Overdelen sikres under monteringen af mindst 2 hjælpere, benyt evt. stige eller taburet. Hvis forhåndenværende, tilsluttes stikforbindelserne på tilbehørsdelene.

Stelforbindelserne laves omhyggeligt.

Monteringshenvisninger, se originalhåndbogen.

I tvivlstilfælde opsøges ubetinget Deres forhandler for at opnå faglig hjælp!

4.2.2.1. Videoapparat til stående betjening, mulige leveringsformer:

- a) komplet monteret og/eller
- b) med separat vedlagt overdel (belyst eller ubelyst) og/eller
- c) med separat vedlagt betjeningsenhed

4.2.2.2. Videoapparat til siddende betjening, mulige leveringsformer:

- a-c) som videoapparat til stående betjening og/eller yderligere
- d) med separat vedlagt siddeenhed.

4.3. Idrifttagning

Hvis forhåndenværende, nivelleres apparatet nøjagtigt med de højdejusterbare apparatfødder. Apparatet skal stå absolut fast på underlaget. Ved glatte gulve benyttes gummikapper på apparatfødderne.

Alle monteringsenheder og stikforbindelser kontrolleres for korrekt samling. Især skal alle stelforbindelser til alle berørbare metaldele kontrolleres af en elektrofagmand for korrekt forbindelse!

Hovedafbryderen udkobles. Netstikket stikkes først i efter afslutning af alle forudgående punkter.

Hovedafbryderen indkobles. Ved unormal støj, røg eller usædvanlig lugt efter indkoblingen, trækkes netstikket omgående ud af stikdåsen og en elektrofagmand spørges til råds. I tvivlstilfælde kontakt ubetinget Deres forhandler.



ADVARSEL !! Brandfare

Det defekte apparat må under ingen omstændigheder benyttes i denne tilstand.

4.4. Indstillinger

Program - hhv. modelbetingede indstillinger findes i den vedlagte originalhåndbog.



ADVARSEL !! Fare for elektriske stød

Overhold ubetinget sikkerhedshenvisningerne i kapitel 2.

I tvivlstilfælde opsøges ubetinget Deres forhandler for at opnå faglig hjælp!

5. Inspektion, vedligeholdelse og pleje

5.1. Generelle henvisninger



ADVARSEL !! Fare for elektriske stød

Overhold ubetinget sikkerhedshenvisningerne i kapitel 2.

Netledningens tilstand kontrolleres med jævne mellemrum. Er ledningen eller netstikket beskadiget skal apparatet omgående tages ud af drift og repareres af en elektrofagmand.

Kontroller ubetinget om advarselshenvisningerne er anbragt på apparatet og om de er læsbare, hvis ikke skal de udskiftes (se kapitel 8).

5.2. Vedligeholdelse

Apparatet er vedligeholdelsesfrit.

5.3. Rengøring af kabinet og ydre billedskærm

1. Apparatet slukkes og netstikket trækkes ud!
2. Kabinettet og den ydre billedskærm rengøres med en blød, fugtig (ikke våd) klud og et mildt rensmiddel (anvend ikke opløsningsmiddel-, syre- eller skuremiddelholdige rensmidler).

6. Service

6.1. Generelle henvisninger



ADVARSEL !! Fare for elektriske stød

Overhold ubetinget sikkerhedshenvisningerne i kapitel 2.

Ved en defekt trækkes netstikket omgående ud af stikdåsen og en påfølgende reparation må kun udføres af en elektrofagmand. Vedrørende servicehenvisninger, se originalhåndbogen.

I tvivlstilfælde opsøges ubetinget Deres forhandler for at opnå faglig hjælp!

6.2. Udskiftning af defekte belysningselementer

1. Sluk for apparatet og træk netstikket ud!
2. Pas på, belysningselementerne kan være varme!
3. Udskift kun belysningselementer med foreskrevne dele. Vedrørende servicehenvisninger, se originalhåndbogen.

7. Demontering

7.1. Generelle henvisninger



ADVARSEL !! Fare for elektriske stød

Overhold ubetinget sikkerhedshenvisningerne i kapitel 2.

7.2. Demontering

Netstikket trækkes ud. Alle i kapitel 4.2 beskrevne tilbehørsdele demonteres i omvendt rækkefølge. Overdelen sikres af min. 2 hjælpere under demonteringen.

7.3. Genopstilling

Fornyset transport, opstilling og idrifttagning gennemføres som beskrevet i kapitel 4.

7.4. Destruering

Destruering må kun gennemføres af et autoriseret firma.

8. Advarselshenvisninger

Advarselshenvisninger, i tekst og/eller billede, som klæbemærkat, påtryk og/eller i form af denne betjeningsvejledning er udsat for et naturligt slid. Ejeren bærer ansvaret for at de altid er forhåndenværende og læsbare.

Beskadigede eller manglende advarselshenvisninger skal omgående erstattes med nye. Kontakt Deres forhandler ved behov.

Betjeningsvejledningen skal til senere brug ubetinget opbevares et sikkert sted!

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1. Prefacio

Estas instrucciones de servicio se refieren a las máquinas recreativas de mostrador, de pie o de asiento. Para números de piezas de repuesto, avisos de servicio y ajustes, véase el manual original adjunto por separado. En caso de duda, particularmente en dificultades idiomáticas o de cualquier otra índole con el manual original, ¡recurra necesariamente a la ayuda técnica de su distribuidor!

Reservadas las modificaciones a este manual en nuevas ediciones.

Declaración de conformidad de la CEE

Este aparato satisface las directrices y los estándares de seguridad estipulados por la CEE. No recae bajo la denominación de directriz para maquinarias.

2. Avisos de seguridad

2.1. Definición



¡¡ATENCIÓN !! El incumplimiento puede llegar a provocar daños personales o lesiones mortales.

2.2. Aclaraciones generales

Intervenciones en el aparato sólo por personal eléctrico especializado, pues de lo contrario existe riesgo de lesiones personales así como de un deterioro permanente del aparato. Resultado de ello serían trabajos costosos de reparación, cambio de componentes del sistema, caducidad de los derechos de garantía.

Instalación y trabajos de reparación sólo por personal eléctrico especializado, trabajos de servicio sólo por personal instruido. El propietario del aparato tiene que asegurarse de que todas las personas que tengan que ver con la instalación, puesta en servicio, mantenimiento y reparación del aparato, estén cualificadas para ello y de que antes de comenzar con los trabajos hayan leído y comprendido los avisos necesarios de seguridad y el capítulo correspondiente del manual.

¡Guardar las instrucciones de servicio en un lugar seguro para su uso posterior!

¡No se asume ninguna clase de garantía por accidentes, lesiones y daños que devengan de un manejo inadecuado, un uso no autorizado y a transformaciones personales del aparato! Por motivos de seguridad, se prohíbe terminantemente realizar modificaciones y transformaciones personales en el aparato.

Contacte con su distribuidor para otras preguntas o en caso de duda.

¡Tienen que cumplirse estrictamente los avisos de seguridad! Por su propia seguridad.

2.3. Avisos básicos de seguridad

El aparato debe ponerse en servicio sólo, si se realizó la instalación correctamente conforme al manual.

La tensión y frecuencia de servicio del aparato tiene que coincidir con la tensión y la frecuencia de la red. Para los datos eléctricos, véase la placa de características ubicada en la parte posterior del aparato. Conectar el aparato solamente a un enchufe correctamente instalado, con cortacircuito y con toma de tierra.

¡Instalación y puesta en servicio únicamente dentro de locales cerrados y secos! ¡El aparato sólo debe usarse de forma comercial!

Los avisos de peligro deteriorados o ausentes en el aparato han de reemplazarse inmediatamente.



¡¡ATENCIÓN !! Peligro de implosión de los tubos de imagen y de neón
Instalación únicamente sobre una superficie estable y robusta, sujetar caso necesario. La caída del aparato puede tener como consecuencia la implosión de los tubos de imagen y de neón. Los cascotes de vidrio despedidos pueden provocar lesiones graves.



¡¡ATENCIÓN !! Peligro de sacudidas eléctricas
Antes de abrir el aparato ¡Saque SIEMPRE el enchufe de la toma de red! La pared trasera del aparato sólo ha de abrirla un electricista especializado. En el interior del aparato existen altas tensiones peligrosas al contacto, que se forman incluso después de desconectar el enchufe. Su incumplimiento puede provocar lesiones graves o la muerte.



¡¡ATENCIÓN !! Peligro de incendio
Cambie los fusibles quemados sólo por los fusibles prescritos. No obstruya nunca las rejillas de ventilación de las máquinas recreativas. No sobrepase la temperatura ambiente de 40°C. No sobrecargue el circuito eléctrico ni las líneas de alimentación.

En caso de defecto, saque inmediatamente el enchufe de la toma de red y encargue su reparación solamente a un técnico electricista. Tire solamente del enchufe y no del cable.

Al buscar fallos, no saque ni meta nunca las conexiones de enchufe existentes bajo tensión dentro del aparato. Por regla general, ¡todos los trabajos de reparación en estado sin tensión!

Utilice solamente piezas originales de repuesto.

¡El incumplimiento de los puntos arriba mencionados puede generar un peligro de muerte!

3. Control del aparato

3.1. Control después de la entrega

Controle los daños de transporte del aparato directamente después de la entrega. Para asegurar sus derechos, anote los daños visibles en los documentos de expedición de la agencia de transportes o notifique inmediatamente después de la recepción de la mercancía.

Abra el aparato y controle la posición correcta de todos los componentes y conexiones de enchufe.

Saque del interior del aparato o de la caja el material de montaje empaquetado.

Si el enchufe de red suministrado no cumple la norma prescrita local, conecte un enchufe adecuado al cable de alimentación.



¡¡ATENCIÓN !! Peligro de sacudidas eléctricas

Conexión del enchufe de red solamente por un técnico electricista.
¡Su incumplimiento pone en peligro a usted mismo y a otras personas!

Si disponibles, sacar del embalaje la pieza superior separada o la unidad con asiento. Montaje de estas piezas sólo en el lugar de instalación, de lo contrario deterioros en el transporte.

4. Transporte, instalación y puesta en servicio

4.1. Elección del lugar de montaje y transporte

¡Instalación y puesta en servicio únicamente dentro de locales cerrados y secos! Se prohíbe estrictamente la instalación al aire libre o en locales húmedos. La humedad penetrante puede provocar accidentes causados por sacudidas eléctricas o por fallos dentro del aparato. Evite una exposición directa a los rayos del sol.

Antes del transporte, controlar en el lugar de instalación las vías y posibilidades de transporte. En suelos inclinados, mover con mucha precaución los aparatos provistos de rodillos para el transporte.

Mover el aparato junto con una cantidad suficiente de personas. Cuidado con las lámparas que cuelgan muy bajas.

Colocar el aparato sobre una superficie plana y robusta. No obstruir los orificios de ventilación situados en la parte trasera del aparato. Mantener una separación suficiente de la pared (10 cm mín.).

No colocar el aparato cerca de:

- a) instalaciones de salvamento, como p. ej.
 - salidas de emergencia,
 - extintores, etc.
- b) recipientes con sustancias fácilmente inflamables, agua o productos químicos,
- c) fuentes de calor, como p. ej.
 - calefacciones
 - aberturas de acondicionadores de aire
 - escaparates con irradiaciones directas del sol etc.

No someter el aparato a cargas que provoquen a una avería funcional o a defectos, como p. ej.

- fuertes vibraciones,
- acumulación extrema de polvo o suciedad,
- exposición directa a los rayos del sol o calor,
- lluvia o humedad,
- fuerte magnetismo o radioondas.

Tiene que existir una caja de enchufe instalada correctamente, con toma de tierra y de cortacircuito directamente en el lugar de montaje del aparato.

No sobrecargar el circuito eléctrico al que se acopla el aparato.

Tender el cable de alimentación de tal modo que nadie se tropiece con él. Su incumplimiento puede provocar lesiones o deteriorar el cable de alimentación.

No doblar fuertemente el cable de alimentación ni colocar sobre él objetos pesados, pues puede deteriorarse el aislamiento, teniendo como consecuencia una exposición libre de la tensión de red, un cortocircuito y un posible incendio.

4.2. Instalación y montaje del aparato

¡Colocar el aparato, no meter todavía el enchufe en la red, sólo después de concluir la instalación!



¡¡ATENCIÓN !! Peligro de implosión de los tubos de imagen y de neón

Cumplir necesariamente los avisos de seguridad del capítulo 2.3.

4.2.1. Los aparatos de vídeo para mostrador se entregan completamente montados. No es necesario otro montaje. ¡Procurar un lugar seguro estático!

4.2.2. Avisos de montaje Aparato de vídeo de pie y aparatos con asiento

Si disponibles, sujetar las piezas accesorias separadas con seguridad al aparato con los tornillos que se encuentran en el paquete secundario. Asegurar la pieza superior durante el montaje con dos ayudantes como mínimo, usar por ejemplo escalerillas y otras ayudas. Enchufar las conexiones de enchufe de las piezas accesorias, si disponibles.

Establecer las conexiones seguras de toma de tierra.

Para los avisos de montaje véase el manual original.

¡En caso de duda, recurra necesariamente a la ayuda técnica de su distribuidor!

4.2.2.1. Aparato de vídeo de pie, suministros posibles:

- a) montado completamente y/o
- b) con pieza superior embalada por separado (iluminada o no) y /o
- c) con unidad de control embalada por separado.

4.2.2.2. Aparato de vídeo con asiento suministros posibles:

- a-c) como el aparato de pie y/o adicional
- d) con unidad de asiento embalada por separado.

4.3. Puesta en servicio

Si disponible, nivelar exactamente el aparato con los tornillos de pata regulables en altura. El aparato tiene que estar sobre el fundamento completamente fijo. En suelos resbaladizos utilizar las caperuzas de goma para las patas.

Controlar la posición correcta de los componentes y de las conexiones de enchufe. ¡Encargar a un electricista especializado controlar especialmente la correcta posición de todos los cables de tierra de todas las piezas metálicas libres!

Desconectar el interruptor principal. Conectar el enchufe de red sólo después de controlar todos los puntos anteriormente mencionados.

Conectar el interruptor principal. Si después de conectar, escuchara un ruido anormal, humo o olores raros, sacar inmediatamente el enchufe de la toma de red y solicitar el consejo de un electricista especializado. En caso de duda, contacte necesariamente con su distribuidor.



¡¡ATENCIÓN !! Peligro de incendio

No ponga en funcionamiento en ningún caso el aparato averiado.

4.4. Ajustes

Leer los ajustes conformes al modelo y/o al programa en el manual original adjunto.



¡¡ATENCIÓN !! Peligro de sacudidas eléctricas

Cumplir necesariamente los avisos de seguridad del capítulo 2.

En caso de duda, ¡recurra necesariamente a la ayuda técnica de su distribuidor!

5. Inspección, mantenimiento y cuidado

5.1. Avisos generales



¡¡ATENCIÓN !! Peligro de sacudidas eléctricas

Cumplir necesariamente los avisos de seguridad del capítulo 2.

Controlar periódicamente el estado del cable de alimentación. Al dañarse los cables o enchufes, apagar inmediatamente el aparato y encargarlo reparar a un electricista especializado.

Controlar necesariamente la existencia y legibilidad de los avisos de peligro, cambiar en caso necesario (ver capítulo 8)

5.2. Mantenimiento

El aparato en sí no precisa mantenimiento.

5.3. Limpieza del cuerpo y de la pantalla exterior

1. ¡Apagar el aparato y sacar el enchufe!
2. Limpiar el cuerpo y la pantalla exterior con un paño suave, húmedo (bien escurrido) y un detergente fino (no usar limpiadores que contengan disolventes, ácidos o medios abrasivos)

6. Servicio

6.1. Avisos generales



¡¡ATENCIÓN !! Peligro de sacudidas eléctricas

Cumplir necesariamente los avisos de seguridad del capítulo 2.

En caso de defecto, saque inmediatamente el enchufe de la toma de red y encargue su reparación solamente a un técnico electricista. Para los avisos de servicio, véase el manual original.

En caso de duda, ¡recurra necesariamente a la ayuda técnica de su distribuidor!

6.2. Cambio de las lámparas defectuosas

1. ¡Apagar el aparato y sacar el enchufe de red!
2. ¡Cuidado, la lámparas pueden quemar!
3. Cambiar las lámparas solamente por piezas prescritas. Para los avisos de servicio, véase el manual original.

7. Puesta fuera de servicio

7.1. Avisos generales



¡¡ATENCIÓN !! Peligro de sacudidas eléctricas

Cumplir necesariamente los avisos de seguridad del capítulo 2.

7.2. Desmontaje

Sacar el enchufe de red. Desmontar en sentido inverso todos los accesorios descritos en el capítulo 4.2. Durante el desmontaje sujetar la pieza superior con ayuda de dos personas.

7.3. Transporte

Cambiar de lugar y efectuar la reconexión tal como descrito en el capítulo 4.

7.4. Gestión residual

Encargar la gestión residual a una empresa autorizada.

8. Avisos de peligro

Los avisos de peligro, ya sea en texto o en imágenes, como pegatinas, sobreimpresión y/ o en forma de estas instrucciones de servicio quedan supeditados al desgaste natural. El usuario tiene la responsabilidad de que se disponga de ellas y de que sean legibles.

Los avisos de peligro deteriorados o ausentes en el aparato han de reemplazarse inmediatamente. En caso necesario contacte con su distribuidor.

¡Guardar las instrucciones de servicio en un lugar seguro para su uso posterior!

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1. Avant-propos

Ces instructions de service ont cours de validité pour les automates de jeux vidéo utilisés sur comptoirs, debout et assis. Les numéros des pièces de rechange, les instructions de service et les réglages figurent dans le manuel original four/ni séparément avec l'appareil. En cas de doute, particulièrement si le manuel d'utilisation vous pose des difficultés de compréhension au niveau de la langue ou autres, il est impératif de faire appel à l'assistance spécialisée de votre fournisseur !

Sous réserve de modifications dans les nouvelles versions de ce manuel.

Déclaration de conformité CE

Cet appareil est conforme aux directives et aux standards de sécurité européens. Il n'est pas sujet aux directives sur les machines.

2. Instructions de sécurité

2.1. Définition des termes employés



ATTENTION !! Le non respect des instructions de sécurité peut être à l'origine de risques corporels et provoquer des blessures mortelles.

2.2. Explications d'ordre général

Les opérations effectuées sur l'appareils sont exclusivement du ressort d'un personnel spécialisé pour éviter tout risque de blessures, qui risqueraient également d'être à l'origine de séquelles durables. Il en résulterait des réparations onéreuses, le remplacement de composants du système, l'extinction des droits de garantie.

L'installation et les travaux de réparation doivent être exclusivement effectués par un personnel spécialisé, les travaux de service uniquement par un personnel formé à cet effet. Le propriétaire de cet appareil doit s'assurer que toutes les personnes chargées de l'installation, de la mise en service, de la maintenance, des réparations et de l'entretien sont qualifiées pour ce faire. Il est impératif qu'elles aient pris connaissance et compris les instructions de sécurité et les chapitres correspondants de ce manuel.

Conserver les instructions de service dans un endroit sûr pour pouvoir les consulter en cas de besoin !

Toute responsabilité est exclue pour les accidents, les blessures et des détériorations résultant d'une manutention non appropriée, d'une utilisation non conforme et de transformations réalisées sur l'initiative de l'utilisateur ! Il est expressément interdit, pour des raisons de sécurité, d'effectuer toute transformation ou modification sur l'automate.

Veuillez contacter votre fournisseur pour toute demande de renseignements complémentaires ou en cas de doute.

Les instructions de service doivent être respectées à la lettre ! Il s'agit de votre sécurité.

2.3. Instructions de sécurité de base

L'appareil ne doit être utilisé que si l'installation a été réalisée conformément aux instructions stipulées dans ce manuel.

La tension et la fréquence de service de l'appareil doivent correspondre à la tension et à la fréquence du réseau. Les caractéristiques électriques figurent sur la plaque signalétique située à l'arrière de l'appareil. Raccorder exclusivement l'appareil à une prise de courant installée correctement, équipée d'un fusible et d'une prise de terre.

Monter et utiliser l'appareil exclusivement dans des locaux secs et fermés ! L'appareil est prévu pour être utilisé uniquement à des fins professionnelles.

Remplacer immédiatement les panneaux de signalisation des dangers endommagés ou manquants.



ATTENTION !! Risque d'implosion des tubes cathodiques et des tubes au néon

Installer l'appareil sur un support stable et solide et l'y fixer si nécessaire. Un appareil qui tombe peut provoquer l'implosion des tubes cathodiques et des tubes au néon. Les éclats de verre projetés peuvent occasionner des blessures graves.



ATTENTION !! Risques d'électrocution

Avant d'ouvrir l'appareil, retirer TOUJOURS la fiche de la prise de courant ! Ne jamais toucher la prise avec des mains mouillées. L'arrière de l'appareil doit être ouvert exclusivement par un personnel spécialisé. Les hautes tensions accessibles régnant à l'intérieur de l'appareil et mortelles sont encore présentes lorsque la prise secteur a été retirée.



ATTENTION !! Risques d'incendie

Utiliser exclusivement les fusibles prescrits. Ne jamais obstruer les fentes d'aération des automates de jeux. La température de l'environnement de doit pas excéder 40°C. Ne pas surcharger le secteur et les lignes d'alimentation.

Dans le cas d'un dérangement, retirer immédiatement la fiche de la prise de courant et faire effectuer la réparation par un personnel spécialisé uniquement. Tirer sur la fiche, pas sur le câble.

Dans le cas d'une recherche d'erreur, ne jamais retirer les connexions enfichables située à l'intérieur de l'appareil si ce dernier est sous tension. Couper la tension avant d'effectuer toute réparation !

Utiliser exclusivement des pièces de rechange d'origine .

Le non respect des points énumérés ci-dessus peut vous mettre en danger de mort!

3. Vérification de l'appareil

3.1. Contrôle après livraison

Vérifier dès la livraison si l'appareil n'a subi aucun dommage pendant le transport. Noter les détériorations visibles sur les papiers de livraison de l'entreprise qui a effectué le transport, ou les communiquer immédiatement après la réception pour assurer votre recours.

Ouvrir l'appareil et s'assurer que tous les modules et raccords sont bien fixés.

Retirer le matériel de montage qui se trouve à l'intérieur de l'appareil ou dans le boîtier caisse.

Si la prise secteur n'est pas conforme à la norme prévue sur le site d'installation, raccorder la prise convenable au câble d'alimentation.



ATTENTION !! Risques d'électrocution

Le raccordement de la prise secteur doit être effectué exclusivement par un personnel spécialisé. Vous vous mettez en danger, ainsi que d'autres personnes si vous ne respectez pas ce point !

Sortir l'élément de tête de l'emballage, ou le siège fourni éventuellement séparément. Ne montez ces éléments que lorsque l'appareil se trouve sur le site d'installation, vous risquez sinon de les endommager pendant le transport.

4. Transport, installation et mise en service

4.1. Choix du site d'installation et transport

Effectuer le montage et la mise en service dans des locaux secs uniquement ! Il est strictement interdit de monter l'appareil à l'air libre ou dans des locaux humides. L'humidité peut provoquer des accidents par décharges électriques ou occasionner des erreurs dans l'appareil. Eviter d'exposer l'appareil aux rayons directs du soleil.

Avant d'effectuer le transport, vérifier les voies et les possibilités de transport sur le site d'installation. Prêter une attention particulière sur les sols inclinés si l'appareil est muni de roulettes.

Ne déplacer l'appareil que si le nombre de personnes nécessaires pour ce faire est suffisant. Prendre garde aux éléments d'éclairage bas.

Installer l'appareil sur un sol plane et solide. Ne pas obstruer les ouvertures de ventilation à l'arrière de l'appareil. Respecter un écart suffisant par rapport au mur (10 cm minimum).

Ne pas placer l'appareil à proximité

- a) d'installations de première urgence, comme par ex.
 - sorties de secours
 - extincteurs, etc.
- b) de conteneurs renfermant des produits facilement inflammables, de l'eau ou des produits chimiques
- c) de sources de chaleur, comme par ex.
 - radiateurs
 - ouvertures de climatiseurs.
 - vitrines exposées aux rayons directs du soleil, etc.

Ne pas exposer l'appareil à des contraintes pouvant perturber ses fonctions ou provoquer un dérangement, comme par ex.

- importantes vibrations
- présence extrême de poussière ou de saletés
- rayonnements directs du soleil ou chaleur
- pluie ou humidité
- magnétisme ou ondes radio importantes

Une prise secteur dotée d'une prise de terre et d'un fusible doit être installée correctement sur le site d'installation.

Ne pas surcharger le circuit de courant auquel l'appareil est raccordé.

Poser le câble secteur de manière à ce que personne ne puisse y trébucher. Le non respect de ce point peut mener à des blessures graves et à une détérioration du câble secteur.

Ne jamais plier le câble secteur ou y poser d'objets lourds. L'isolation pourrait en être endommagée, découvrant ainsi le câble, et provoquer des risques d'électrocution, un court-circuit ou un risque d'incendie.

4.2. Installation et montage

Placer l'appareil. Ne pas encore brancher la prise secteur, mais attendre que l'installation soit terminée !



ATTENTION !! Risque d'implosion des tubes cathodiques et des tubes au néon
Respecter impérativement les instructions de sécurité stipulées au chapitre 2.3.

4.2.1. Les appareils de compteur vidéo sont livrés entièrement montés. Il n'est pas nécessaire d'effectuer de montages supplémentaires. Installer l'appareil dans un endroit sûr !

4.2.2. Instructions de montage des appareils vidéo pour utilisation debout et assise

Si des accessoires sont fournis avec l'appareil, les fixers sûrement au moyen des vis fournies dans le sachet accompagnant l'appareil. L'élément de tête doit être maintenu par 2 assistants au moins. Utiliser une échelle ou un escabeau si nécessaire. Brancher les connexions des accessoires si ces derniers sont également fournis.

Réaliser correctement les connexions à la terre.

Se reporter au manuel pour y consulter les instructions de montage.

En cas de doute, contactez impérativement votre fournisseur !

4.2.2.1. Appareils vidéo pour utilisation debout, forme de livraison

- a) monté complètement et / ou
- b) avec élément de tête livré séparément (éclairé ou non) et / ou
- c) avec unité de commande livrée séparément

4.2.2.2. Appareils vidéo pour utilisation assise, forme de livraison

- a-c) comme pour les appareils vidéo utilisés debout et / ou
- d) avec siège livré séparément

4.3. Mise en service

Positionner l'appareil de niveau au moyen des pieds de réglage à visser, si l'appareil en est équipé. Il faut que l'appareil soit absolument stable. Les pieds doivent être revêtus de pièces en caoutchouc si le sol est glissant.

Vérifier si tous les modules et toutes les connexions sont bien fixés. Faire vérifier par un spécialiste la fixation correcte de toutes les connexions de protection de toutes les parties métalliques dénudées.

Désactiver l'interrupteur principal. Ne brancher la prise secteur que lorsque tous les points énumérés ci-dessus ont été respectés.

Activer l'interrupteur principal. Dans le cas de bruits anormaux, d'apparition de fumée ou d'odeurs inhabituelles lorsque l'appareil est mis en service, débrancher immédiatement la prise secteur et demander conseil à un spécialiste ! Contactez impérativement votre fournisseur en cas de doute.



ATTENTION !! Risques d'incendie

Ne jamais continuer à utiliser un appareil défectueux.

4.4. Réglages

Effectuer les réglages propres au programme et au modèle d'appareil conformément aux instructions spécifiées dans le manuel original fourni.



ATTENTION !! Risques d'électrocution

Respecter impérativement les instructions de sécurité stipulées au chapitre 2.

En cas de doute, contactez impérativement l'assistance spécialisée de votre revendeur !

5. Révision, maintenance et entretien

5.1. Généralités



ATTENTION !! Risques d'électrocution

Respecter impérativement les instructions de sécurité stipulées au chapitre 2.

Vérifier régulièrement l'état du câble secteur. Mettre l'appareil hors service immédiatement si le câble secteur ou la prise secteur sont endommagés et les faire réparer aussitôt par un électricien.

Vérifier impérativement si les panneaux de signalisation des dangers sont en place et lisibles et les remplacer si nécessaire (voir le chapitre 8).

5.2. Maintenance

L'appareil est exempt de maintenance.

5.3. Nettoyage du boîtier et de l'écran extérieur

1. Mettre l'appareil hors service et débrancher la prise secteur.
2. Nettoyer le boîtier et l'écran extérieur au moyen d'un chiffon doux et humide (pas mouillé) et d'un produit de nettoyage doux (ne pas employer de solvants ou des produits de nettoyage contenant des acides ou des produits de nettoyage à récurer).

6. Service

6.1. Généralités



ATTENTION !! Risques d'électrocution

Respecter impérativement les instructions de sécurité stipulées au chapitre 2.

En cas de panne, débrancher immédiatement la prise secteur et faire réparer l'appareil par un spécialiste uniquement. Respecter les instructions de sécurité stipulées dans le manuel original.

En cas de doute, contactez impérativement l'assistance spécialisée de votre fournisseur!

6.2. Remplacement des éléments d'éclairage défectueux

1. Mettre l'appareil hors service.
2. Attention! Les éléments d'éclairage peuvent être chauds !
3. Remplacer les éléments d'éclairage par des pièces autorisées. Respecter les instructions de sécurité stipulées dans le manuel original.

7. Mise hors service

7.1. Généralités



ATTENTION !! Risques d'électrocution

Respecter impérativement les instructions de sécurité stipulées au chapitre 2.

7.2. Démontage

Débrancher la prise secteur. Démontez tous les accessoires décrits au chapitre 4.2 dans l'ordre inverse. Se faire aider par au moins 2 assistants pour démonter l'élément de tête.

7.3. Changement de site

Effectuer le transport et la remise en service conformément aux instructions décrites au chapitre 4.

7.4. Mise au rebut

La mise au rebut doit être effectuée par une entreprise spécialisée.

8. Panneaux de signalisation des dangers

Les panneaux de signalisation des dangers, qu'ils se présentent sous forme de texte ou de figures, qu'ils soient imprimés sur l'appareil et / ou sous forme de ces instructions de service, sont soumis à une usure naturelle. L'exploitant assume la responsabilité pour le fait qu'ils soient toujours présents et lisibles.

Les panneaux de signalisation des dangers détériorés ou manquants doivent être remplacés immédiatement. Contactez votre fournisseur en cas de besoin.

Conserver les instructions de service dans un endroit sûr pour pouvoir les consulter en cas de besoin.

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8. **Varoitukset**

1. Esipuhe

Nämä käyttöohjeet on tarkoitettu pöytä-, seisoma- ja istumamallin videopeliautomaateille. Varaosien numerot, huolto-ohjeet ja säätötyöt, ks. erillistä laitteen mukana toimitettua alkuperäistä käsikirjaa. Epäselvissä tapauksissa, erityisesti myös alkuperäisen käsikirjan yhteydessä esiintyvissä kielellisissä tai muunlaisissa ymmärtämisvaikeuksissa, on ehdottomasti käytettävä myyntiliikkeen asiantuntevaa apua!

Oikeus tämän käsikirjan muutoksiin uusien painosten muodossa pidätetään.

EC-yhdenmukaisuusvakuutus

Tämä laite on Euroopan turvallisuusdirektiivien ja standardien mukainen. Laite ei kuulu konedirektiivin alaisuuteen.

2. Turvaohjeita

2.1. Käsitteen määrittely



VAROITUS !! Turvaohjeiden laiminlyönnistä voi olla seurauksena henkilövahingot tai hengenmenetys.

2.2. Yleisiä selostuksia

Laitteeseen saavat puuttua vain sähköalan ammattilaiset, muussa tapauksessa vaarana on loukkaantuminen sekä pysyvät laitevauriot. Tästä olisi taas seurauksena kalliit korjaustyöt, järjestelmäkomponenttien vaihto ja takuuoikeuksien raukeaminen.

Asennus- ja korjaustöitä saavat suorittaa vain sähköalan ammattilaiset, huoltotöitä vain laitteeseen perehtynyt henkilöstö. Laitteen omistajan täytyy varmistua siitä, että kaikki henkilöt, jotka ovat tekemisissä tämän laitteen pystytyksen, käyttöönoton, huolto-, korjaus- ja kunnostustöiden kanssa, ovat päteviä tehtävään ja että he ovat ennen töiden aloittamista ehdottomasti lukeneet ja ymmärtäneet tarpeelliset turvaohjeet ja niihin liittyvät käsikirjan luvut.

Käyttöohjeita on ehdottomasti säilytettävä luotettavassa paikassa myöhempää käyttöä varten!

Tapaturmista, loukkaantumisista tai vaurioista ei vastata, jos laitetta käsitellään epäasianmukaisesti tai sitä käytetään määräysten vastaisesti tai sen rakennetta muutetaan omavaltaisesti! Automaatin omavaltaiset rakenteelliset tai muut muutokset ovat turvallisuussyistä nimenomaisesti kiellettyjä.

Lisäkysymyksissä tai epäselvässä tapauksessa tulee ottaa yhteyttä myyntiliikkeeseen.

Turvaohjeita on noudatettava tarkasti! Kysymys on omasta turvallisuudestasi.

2.3. Perustavanlaatuisia turvaohjeita

Laitetta saa käyttää vain, kun se on pystytetty määräysten ja käsikirjan mukaisesti.

Laitteen käyttöjännitteen ja -taajuuden täytyy vastata verkkovirran jännitettä ja taajuutta. Sähkötiedot, ks. laitteen takaosassa olevaa tyyppikilpeä. Laitteen saa liittää vain asianmukaisesti asennettuun, suojattuun ja maadoitettuun seinäpistorasiaan.

Laitteen saa pystyttää ja ottaa käyttöön vain suljetussa, kuivassa tilassa! Laitetta saa käyttää vain ammattitarkoitukseen!

Laitteen vioittuneet tai puuttuvat varoitukset on vaihdettava heti uusiin.

**VAROITUS !!****Kuvaputken ja neonputkien räjähdysvaara**

Laitteen saa pystyttää vain tukevalle, kantavalle alustalle, ja se on tarvittaessa kiinnitettävä. Jos laite kaatuu, kuva- tai neonputket voivat räjähtää. Ympäriinsä lentävät lasinsirut voivat aiheuttaa tällöin mitä vakavampia vammoja.

**VAROITUS !!****Sähköiskun vaara**

Verkkopistoke on vedettävä AINA irti pistorasiasta, ennen kuin laite avataan! Verkkopistoketta ei saa koskaan koskettaa märillä käsillä. Laitteen takaseinän saavat avata vain sähköalan ammattilaiset. Laitteen sisäosassa on hengenvaarallista, kosketussuojaamatonta suurjännitettä myös verkkopistokkeen irrottamisen jälkeen. Jos tätä määräystä ei noudateta, seurauksena voi olla hengenmenetys tai vakavat vammat.

**VAROITUS !!****Tulipalon vaara**

Sulakkeet saa vaihtaa vain määräysten mukaisiin sulakkeisiin. Peliautomaatin tuuletusrakojia ei saa koskaan peittää. Ympäristön lämpötila ei saa kohota yli 40°C. Verkkovirtapiiriä ja syöttöjohtoja ei saa ylikuormittaa.

Jos laitteessa on vikaa, verkkopistoke on vedettävä heti irti pistorasiasta ja korjaustyöt annettava vain sähköalan ammattilaisten tehtäväksi. Pistokkeen saa irrottaa vain pistokkeesta, ei sähköjohdosta vetämällä.

Laitteen sisässä olevia pistoliittimiä ei saa koskaan vetää vianhaun yhteydessä irti tai pistää paikalleen, kun laitteessa on jännitettä. Korjaustöitä saa suorittaa aina vain, kun laitteessa ei ole jännitettä!

Käyttää saa vain alkuperäisiä varaosia.

Edellä mainittujen määräysten laiminlyöminen voi olla hengenvaarallista!

3. Laitteen tarkastus

3.1. Tarkastus laitteen saavuttua

Laitteeseen tulee tarkastaa toimituksen saavuttua, näkykö siinä kuljetusvaurioita. Näkyvät vauriot tulee merkitä laitteen toimittaneen huolitsijan huolintapapereihin tai ilmoitettava välittömästi tavaran saavuttua, jotta oikeudet säilyvät.

Laitteeseen avataan ja kaikkien rakenneryhmien ja pistoliittimien kiinnitys tarkastetaan.

Mukaan pakattu asennusmateriaali otetaan pois laitteen sisältä tai kassalaatikosta.

Jos mukana toimitettu verkkopistoke ei ole maassa voimassa olevien määräysten mukainen, verkkokaapeliin on liitettävä sopiva verkkopistoke.

**VAROITUS !!****Sähköiskun vaara**

Verkkopistokkeen saavat liittää vain sähköalan ammattilaiset. Laiminlyönnillä vaarannat itsesi ja muut!

Erillinen yläosa tai istuinyksikkö, jos laitteeseen kuuluu tällaiset, otetaan ulos pakkauksesta. Nämä osat asennetaan vasta pystytyspaikalla, koska ne voivat vioittua kuljetuksessa.

4. Kuljetus, pystytys ja käyttöönotto

4.1. Pystytyspaikan valinta ja kuljetus

Laitteeseen saa pystyttää ja ottaa käyttöön vain suljetussa, kuivassa tilassa! Pystytys ulos tai kosteaan tai märkään tilaan on ankarasti kielletty. Sisään tunkeutuvasta kosteudesta voi

olla seurauksena sähköiskutapaturmat tai laitteen sisäosien vioittuminen. Suoraa auringonsäteilyä on vältettävä.

Kuljetusreitit ja -mahdollisuudet pystytyspaikalla tulee tarkastaa ennen kuljetusta. Jos laitetta kuljetetaan kuljetuspyörillä, on oltava erityisen varovainen kaltevilla alustoilla.

Laitteen siirtämiseen tulee käyttää riittävä määrä henkilöitä. Varo alhaalla riippuvia valaisimia.

Laite pystytetään tasaiselle, kantavalle alustalle. Laitteen takaosan tuuletusaukkoja ei saa peittää. Seiniin on pidettävä riittävä etäisyys (vähint. 10 cm).

Laitetta ei saa sijoittaa seuraavien kohteiden läheisyyteen:

- a) pelastusjärjestelmät, kuten esim.
 - varauloskäytävät,
 - palonsammuttimet jne.
- b) säiliöt, jotka sisältävät syttyviä aineita, vettä tai kemikaaleja,
- c) lämpölähteet, kuten esim.
 - lämmityspatterit,
 - ilmastointilaitteiden aukot,
 - näyteikkunat, joihin aurinko paistaa suoraan jne.

Laitetta ei saa kuormittaa millään tavalla, mikä aiheuttaa toimintahäiriöitä tai vikoja, kuten esim.

- voimakas värinä,
- äärimmäinen pöly tai lika,
- suora auringonsäteily tai kuumuus,
- sade tai kosteus,
- voimakas magneettisuus tai radioaallot.

Laitteen pystytyspaikan vieressä täytyy olla asianmukaisesti asennettu, maadoitettu ja sulakkeilla suojattu seinäpistorasia.

Virtapiiriä, johon laite liitetään, ei saa ylikuormittaa.

Verkkokaapeli on asennettava siten, että kukaan ei voi kompastua siihen. Laiminlyönnistä voi olla seurauksena vakavat vammat tai verkkokaapelin vioittuminen.

Verkkokaapelia ei saa taivuttaa jyrkälle mutkalle tai asettaa sen päälle raskaita esineitä, koska eristys voi tästä vioittua, jolloin verkkojännitteen koskettaminen on mahdollista tai seurauksena voi olla oikosulku ja tästä aiheutuva tulipalo.

4.2. Laitteen pystytys ja asentaminen

Laite sijoitetaan paikalleen, verkkopistoketta ei liitetä vielä pistorasiaan, vaan vasta kun pystytys on päättynyt!



VAROITUS !! Kuvaputken ja neonputkien räjähdysvaara

Luvun 2.3 turvaohjeet on ehdottomasti otettava huomioon.

4.2.1. Pöytämallin videopeliautomaatit toimitetaan kokonaan kokoonpantuna. Lisäasennustyöt eivät ole tarpeen. On huolehdittava vain tukevasta pystytyspaikasta!

4.2.2. Seisoma- ja istumamallin videopeliautomaatit

Erilliset tarvikkeosat, jos tällaisia kuuluu laitteeseen, kiinnitetään laitteeseen luotettavalla tavalla laitteen mukaan pakatuilla ruuveilla. Vähintään 2 avustajan tulee pitää yläosasta kiinni asennuksen aikana, jolloin on käytettävä nousuapuvälineitä, esim. tikapuita tai askelmia. Tarvikkeosien pistoliittimet, jos tällaisia kuuluu laitteeseen, pistetään paikalleen.

Suojajohtimet liitetään luotettavalla tavalla.

Asennusohjeet, ks. alkuperäistä käsikirjaa.

Epäselvässä tapauksessa on ehdottomasti käytettävä myyntiliikkeen asiantuntevaa apua!

4.2.2.1. Seisomallin videopeliautomaatti, mahdolliset toimitusmuodot:

- a) kokonaan kokoonpantu ja/tai
- b) erikseen pakattu yläosa (valaistu tai valaisematon) ja/tai
- c) erikseen pakattu ohjausyksikkö.

4.2.2.2. Istumamallin videopeliautomaatti, mahdolliset toimitusmuodot:

- a-c) kuten seisomamallin videopeliautomaatti ja/tai lisäksi
- d) erikseen pakattu istuinyksikkö.

4.3. Käyttöönotto

Laite asetetaan tarkasti vaakasuoraan korkeussäädettävillä jalkaruuveilla, jos laitteessa on tällaiset. Laitteen täytyy seisoa ehdottoman tukevasti alustallaan. Sileillä lattioilla laitteen jalkojen alle asetetaan kumitulpat.

Kaikki rakenneryhmät ja pistoliittimet tarkastetaan, ovatko ne lujasti kiinni. Erityisesti kaikkien kosketussuojaamattomien metalliosien suojajohtinten liitäntöjen kiinnitys täytyy antaa sähköalan ammattilaisen tarkastettavaksi!

Pääkytkin kytketään pois päältä. Verkkopistoke pistetään pistorasiaan vasta, kun kaikki edellä mainitut seikat ovat varmasti kunnossa.

Pääkytkin kytketään päälle. Jos kuuluu epätavallisia ääniä, laitteesta tulee savua tai epätavallista hajua päällekytkennän jälkeen, verkkopistoke on vedettävä heti irti pistorasiasta ja paikalle on kutsuttava sähköalan ammattilainen. Epäselvässä tapauksessa on ehdottomasti otettava yhteyttä myyntiliikkeeseen.



VAROITUS !! Tulipalon vaara

Missään tapauksessa viallisen laitteen käyttämistä ei saa jatkaa korjaamattomana.

4.4. Säätötyöt

Ohjelma- ja mallikohtaiset säätötyöt on selostettu mukana seuraavassa alkuperäisessä käsikirjassa.



VAROITUS !! Sähköiskun vaara

Luvun 2 turvaohjeet on ehdottomasti otettava huomioon.

Epäselvässä tapauksessa on ehdottomasti käytettävä myyntiliikkeen asiantuntevaa apua!

5. Säännöllinen tarkastus, huolto ja hoito

5.1 Yleisiä ohjeita



VAROITUS !! Sähköiskun vaara

Luvun 2 turvaohjeet on ehdottomasti otettava huomioon.

Verkkokaapelin kunto on tarkastettava säännöllisesti. Jos kaapeli tai pistoke on viallinen, laite on otettava heti pois käytöstä ja korjautettava sähköalan ammattilaisella.

On ehdottomasti tarkastettava, ovatko varoitukset paikoillaan ja luettavassa kunnossa, tarvittaessa ne on vaihdettava (ks. luku 8).

5.2. Huolto

Laite itse ei tarvitse huoltoa.

5.3. Kotelon ja kuvaruudun ulkopinnan puhdistaminen

1. Laite on kytkettävä pois päältä ja verkkopistoke vedettävä irti!
2. Kotelo ja kuvaruudun ulkopinta puhdistetaan pehmeällä, kostealla (ei märällä) rievulla käyttäen mietoja puhdistusaineita (käyttää ei saa liuottimia, happoa tai hankaavia aineita sisältäviä puhdistusaineita).

6. Huolto

6.1. Yleisiä ohjeita



VAROITUS !! Sähköiskun vaara

Luvun 2 turvaohjeet on ehdottomasti otettava huomioon.

Jos laitteessa on vikaa, verkkopistoke on vedettävä heti irti pistorasiasta ja laite korjautettava sähköalan ammattilaisella. Huolto-ohjeet, ks. alkuperäistä käsikirjaa.

Epäselvässä tapauksessa on ehdottomasti käytettävä myyntiliikkeen asiantuntevaa apua!

6.2. Viallisten valaisimien vaihtaminen

1. Laite on kytkettävä pois päältä ja verkkopistoke vedettävä irti!
2. Varo! Valaisin voi olla kuuma!
3. Valaisimen saa vaihtaa vain määrättyjä osia käyttäen. Huolto-ohjeet, ks. alkuperäistä käsikirjaa.

7. Käytöstäotto

7.1. Yleisiä ohjeita



VAROITUS !! Sähköiskun vaara

Luvun 2 turvaohjeet on ehdottomasti otettava huomioon.

7.2. Purkaminen

Verkkopistoke vedetään irti seinäpistorasiasta. Kaikki luvussa 4.2 selostetut tarviketosat puretaan irti päinvastaisessa järjestyksessä. Vähintään 2 avustajan on pidettävä laitteen yläosasta kiinni.

7.3. Siirtäminen

Laitteen siirtäminen ja jälleenkäyttöönnotto suoritetaan luvussa 4 selostetulla tavalla.

7.4. Hävittäminen

Laite annetaan hyväksytyyn jätehuoltoon hävitettäväksi.

8. Varoitukset

Varoitukset, olivatpa ne sitten tekstin tai kuvien, etiketin, painannan ja/tai näiden käyttöohjeiden muodossa, kuluvat luonnostaan käytössä. Käyttäjä vastaa siitä, että ne ovat paikallaan ja luettavassa kunnossa.

Vialliset tai puuttuvat varoitukset on korvattava heti uusilla. Ota tarvittaessa yhteyttä myyntiliikkeeseen.

Käyttöohjeita on ehdottomasti säilytettävä luotettavassa paikassa myöhempää käyttöä varten!

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8. Avvertenze

1. Premessa

Queste istruzioni d'uso valgono per videogames da bacheca, con comando in piedi e a sedere. Per i numeri dei pezzi di ricambio, per le istruzioni di riparazione e per gli interventi di regolazione si veda il manuale originale fornito insieme all'apparecchio. In caso di incertezza, in particolar modo in caso di problemi di comprensione di tipo linguistico o di difficoltà di qualunque altro tipo rivolgersi necessariamente al proprio rivenditore di fiducia!

Ci si riserva il diritto di apportare modifiche dei contenuti nelle versioni future del presente manuale.

Dichiarazione di conformità CE

Il presente apparecchio soddisfa le direttive e gli standard europei di sicurezza. Esso non rientra nella categoria della direttiva macchine.

2. Indicazioni di sicurezza

2.1. Definizione dei concetti



AVVERTENZA !! La mancata osservanza delle indicazioni di sicurezza può condurre a infortuni o a lesioni mortali.

2.2. Note generali

Gli interventi all'interno dell'apparecchio devono essere eseguiti esclusivamente da un elettricista specializzato, in caso contrario persiste il pericolo di infortunio o di danno permanente all'apparecchio. Ne conseguirebbero costose riparazioni, la sostituzione di componenti di sistema cosiccome l'estinzione di qualsiasi garanzia.

Gli interventi di riparazione e di installazione devono essere eseguiti esclusivamente da un elettricista specializzato. I lavori di servizio e assistenza solamente da personale addestrato. Il proprietario del presente apparecchio deve assicurarsi che tutto il personale addetto alla posa, alla messa in esercizio, alla manutenzione cosiccome alla riparazione dell'apparecchio sia adeguatamente specializzato e che prima di procedere ad effettuare gli interventi di cui sopra abbia letto e compreso le indicazioni di sicurezza e i relativi capitoli del manuale.

Il manuale d'istruzioni va conservato in un luogo sicuro per l'uso futuro!

In caso di uso errato, impiego non corrispondente alla destinazione dell'apparecchio e in caso di intervento sull'apparecchio stesso non si risponde per incidenti, lesioni o danni derivanti. Interventi o modifiche di propria iniziativa sull'apparecchio sono espressamente vietate per motivi di sicurezza.

In caso di ulteriori quesiti o per maggiori informazioni rivolgetevi al vostro rivenditore.

È assolutamente necessario rispettare le indicazioni di sicurezza! Ne va della vostra sicurezza.

2.3. Indicazioni di sicurezza fondamentali

L'apparecchio può essere fatto funzionare solamente se la messa in posa è avvenuta esattamente in conformità a quanto contenuto nel manuale.

La tensione e la frequenza di esercizio dell'apparecchio devono corrispondere alla tensione e alla frequenza della rete elettrica. Per i dati elettrici si veda la targhetta di omologazione situata sul retro dell'apparecchio. Collegare l'apparecchio esclusivamente ad una presa elettrica regolarmente installata, protetta e collegata a terra.

La messa in posa e la messa in esercizio vanno effettuate esclusivamente all'interno di locali chiusi ed asciutti! L'apparecchio deve essere utilizzato esclusivamente a fini commerciali.

Gli adesivi di avvertenza danneggiati o mancanti devono essere immediatamente rimpiazzati con adesivi nuovi.



AVVERTENZA !! Pericolo di implosione del tubo catodico e del neon.

L'apparecchio va messo in posa solamente su pavimentazioni stabili e sufficientemente portanti, se necessario fissandovelo. La caduta dell'apparecchio può causare l'implosione del tubo catodico o del neon. Le schegge derivanti dall'implosione possono arrecare serie lesioni personali.



AVVERTENZA !! Pericolo di folgorazione

Prima di aprire l'apparecchio staccare SEMPRE la spina dalla presa di corrente! Non toccare mai la spina con mani bagnate. La parete posteriore dell'apparecchio può essere aperta esclusivamente da un elettricista specializzato. All'interno dell'apparecchio sono presenti alte tensioni su parti esposte e accessibili, anche dopo aver staccato la spina dell'apparecchio e che possono provocare la morte o serie lesioni personali.



AVVERTENZA !! Pericolo di incendio

Sostituire i fusibili danneggiati solamente con i fusibili prescritti. Mai ostruire le fessure di aerazione del videogame. Non esporre l'apparecchio a temperature ambientali superiori ai 40 °C, Non sovraccaricare i cavi di alimentazione o il circuito elettrico.

In caso di difetto estrarre subito la spina elettrica dalla presa della corrente e far eseguire l'intervento di riparazione esclusivamente da un elettricista specializzato. Tirare solo facendo forza sulla spina elettrica e non sul cavo.

Durante la ricerca di un malfunzionamento non estrarre o infilare mai dei connettori all'interno dell'apparecchio con l'apparecchio ancora sotto tensione. Tutti gli interventi vanno sempre eseguiti senza tensione!

Utilizzare esclusivamente ricambi originali.

La mancata osservazione delle indicazioni sopra riportate significa pericolo di morte!

3. Verifica dell'apparecchio

3.1. Controllo dopo la fornitura

Verificare subito dopo la fornitura che l'apparecchio sia in ordine e che non presenti danni. Annotare i danni visibili sulle bolle di spedizione del trasportatore o farne comunicazione subito dopo il ricevimento dell'apparecchio, in modo da assicurarsi il diritto di rivendicazione.

Aprire l'apparecchio e verificare la correttezza dei vari collegamenti dei gruppi costruttivi e dei connettori.

Estrarre il materiale di montaggio fornito insieme all'apparecchio dall'interno dell'apparecchio stesso o dalla cassetta della cassa.

Se la spina elettrica non corrisponde alla norma utilizzata localmente utilizzare una spina adatta collegandola al cavo di alimentazione.



AVVERTENZA !! Pericolo di folgorazione

Il collegamento della spina elettrica deve essere effettuato esclusivamente da un elettricista specializzato. In caso di mancata osservazione di tale regola mettete a rischio la vostra vita e la vita degli altri.

Se presente, estrarre dalla confezione la testata o il sedile. Il loro montaggio va effettuato solamente sul luogo di posa, altrimenti essi si potrebbero danneggiare durante il trasporto.

4. Trasporto, montaggio e messa in esercizio

4.1. Scelta del luogo di montaggio e trasporto

La posa e la messa in esercizio vanno effettuate esclusivamente all'interno di locali chiusi ed asciutti. La posa e l'erezione dell'apparecchio all'aperto o in locali bagnati o umidi non è assolutamente consentita. Delle infiltrazioni di umidità possono causare lesioni personali per folgorazione o causare malfunzionamenti interni dell'apparecchio.

Verificare prima di effettuare il trasporto quali sono le vie di accesso e le possibilità di trasporto disponibili sul luogo di montaggio dell'apparecchio. In caso di apparecchi dotati di ruote di trasporto fare particolarmente attenzione ai pavimenti inclinati.

Spostare l'apparecchio solamente con l'aiuto di un numero sufficiente di persone. Fare attenzione a lampade sospese ad altezze ridotte.

Appoggiare l'apparecchio su un pavimento piano e sufficientemente portante. Non ostruire le aperture di aerazione situate sul retro dell'apparecchio e mantenere una sufficiente distanza di sicurezza dalla parete (min. 10 cm).

Non piazzare l'apparecchio nelle vicinanze di:

- a) dispositivi di soccorso, come p. es.
 - uscite di emergenza,
 - estintori etc.
- b) serbatoi con sostanze facilmente infiammabili, acqua o sostanze chimiche
- c) sorgenti di calore, come p. es.:
 - caloriferi o radiatori,
 - bocchettoni dell'impianto di condizionamento,
 - vetrine esposte direttamente ai raggi solari etc.

Non esporre l'apparecchio a carichi o a sforzi che potrebbero comprometterne il sicuro funzionamento, come per esempio:

- forti vibrazioni,
- estrema esposizione a polvere e sporco,
- irradiazione solare diretta o calore,
- pioggia od umidità,
- campi magnetici oppure onde radio di elevata intensità

Direttamente sul luogo di posa dell'apparecchio deve essere presente una presa elettrica correttamente installata, collegata a terra e protetta.

Evitare di sovraccaricare il circuito elettrico a cui è collegato l'apparecchio.

Posare il cavo di alimentazione in maniera tale che nessuno vi possa inciampare. Il mancato rispetto di tale indicazione può provocare serie lesioni personali o condurre al danneggiamento del cavo di alimentazione stesso.

Non piegare troppo il cavo di alimentazione nè appoggiarvi sopra oggetti pesanti per non danneggiare il rivestimento isolante del cavo stesso, fatto che comporterebbe il rischio di folgorazione o di cortocircuito con successivo pericolo di incendio.

4.2. Posa e montaggio dell'apparecchio

Posizionare l'apparecchio. Non inserire la spina elettrica subito, ma solamente a posa ultimata!



AVVERTENZA!! Pericolo di implosione del tubo catodico e del neon

Osservare assolutamente le indicazioni di sicurezza contenute nel capitolo 2.3.

4.2.1. Apparecchio video da bacheca

Gli apparecchi video da bacheca vengono forniti già completamente montati. Non è necessario alcun ulteriore montaggio. Assicurarvi che il luogo di montaggio dell'apparecchio sia stabile e sicuro.

4.2.2. Istruzioni di montaggio per l'apparecchio video con comando in piedi e a sedere

Se presente, fissare saldamente all'apparecchio le parti accessorie utilizzando le viti fornite insieme all'apparecchio stesso. Durante il montaggio fare sorreggere la testata da due assistenti e utilizzare una scaletta o uno sgabello. Se presenti, collegare fra di loro gli spinotti delle parti accessorie.

Assicurarsi che i collegamenti dei conduttori di protezione avvengano in maniera corretta e sicura.

Per le istruzioni di montaggio fare riferimento al manuale di istruzioni originale.

In caso di incertezza ricorrere assolutamente all'assistenza del proprio rivenditore.

4.2.2.1. Apparecchio video statico, possibili stati di fornitura

- a) completamente montato e/o
- b) con testata confezionata separatamente (illuminata o non) e/o
- c) con unità di comando confezionata separatamente

4.2.2.2. Apparecchio video a sedere, possibili stati di fornitura

- a-c) come per l'apparecchio con comando in piedi e/o aggiuntivamente
- d) con unità sedile confezionata separatamente

4.3. Messa in esercizio

Se presenti, allineare l'apparecchio con le viti inferiori regolabili in altezza. L'apparecchio deve poggiare sul pavimento in maniera assolutamente stabile. In caso di pavimenti particolarmente lisci montare sotto ai piedi dell'apparecchio dei tamponi di gomma.

Verificare che tutti i gruppi costruttivi e i connettori siano saldamente collegati. In particolare modo lasciare controllare da un elettricista che tutte le parti metalliche toccabili siano correttamente collegate al conduttore di protezione!

Posizionare su spento l'interruttore principale. Inserire la spina solamente dopo che i punti sopraccitati sono stati eseguiti a dovere.

Accendere l'interruttore principale. In caso di rumori anormali, di fumo o di odori inconsueti presenti dopo l'accensione dell'apparecchio estrarre subito la spina elettrica dalla presa di corrente e consultare un elettricista. In caso di incertezza rivolgersi assolutamente al proprio rivenditore.



AVVERTENZA !! Pericolo di incendio

Non tenere assolutamente in funzione l'apparecchio in tali condizioni.

4.4. Impostazioni

Le impostazioni dipendenti dal programma o dal modello sono deducibili dal manuale di istruzioni originale fornito insieme all'apparecchio.



AVVERTENZA !! Pericolo di folgorazione

Osservare assolutamente le indicazioni di sicurezza contenute nel capitolo 2

In caso di incertezza ricorrere assolutamente all'assistenza del proprio rivenditore.

5. Ispezione, manutenzione e cura

5.1. Indicazioni generali



AVVERTENZA !! Pericolo di folgorazione

Osservare assolutamente le indicazioni di sicurezza contenute nel capitolo 2

Verificare ad intervalli regolari lo stato del cavo di alimentazione. In caso di cavo o di spina elettrica danneggiati mettere subito fuori esercizio l'apparecchio provvedendo a chiamare un elettricista per la sua riparazione.

Verificare assolutamente che i cartellini di avvertenza siano presenti e leggibili, in caso contrario sostituirli (vedere il capitolo 8).

5.2. Manutenzione

L'apparecchio di per sè non richiede alcuna manutenzione.

5.3. Pulizia dell'involucro e dello schermo esterno

1. Spegnerne l'apparecchio e staccare la spina elettrica!
2. Detergere l'involucro e lo schermo esterno con un panno morbido e inumidito (non bagnato) usando un detergente dolce (non usare detergenti contenenti solventi, acidi o sostanze abrasive).

6. Riparazione

6.1. Indicazioni generali



AVVERTENZA !! Pericolo di folgorazione

Osservare assolutamente le indicazioni di sicurezza contenute nel capitolo 2

In caso di difetti dell'apparecchio estrarre subito la spina elettrica dalla presa di corrente e fare eseguire la riparazione da un elettricista. Per le istruzioni di servizio consultare il manuale di istruzioni originale.

In caso di incertezza rivolgersi assolutamente al proprio rivenditore.

6.2. Sostituzione di corpi luminosi difettosi

1. Spegnerne l'apparecchio e staccare la spina!
2. Attenzione, le parti luminose possono essere molto calde!
3. Sostituire le parti luminose solamente con i ricambi prescritti. Per le istruzioni di servizio consultare il manuale di istruzioni originale.

7. Messa fuori esercizio

7.1. Indicazioni generali



AVVERTENZA !! Pericolo di folgorazione

Osservare assolutamente le indicazioni di sicurezza contenute nel capitolo 2

7.2. Smontaggio

Estrarre la spina elettrica. Smontare tutte le parti accessorie in sequenza inversa a quanto riportato nel capitolo 4.2. Fare sorreggere la testata durante lo smontaggio da almeno due assistenti.

7.3. Spostamento

Eseguire lo spostamento e la rimessa in esercizio dell'apparecchio come descritto nel capitolo 4.

7.4. Smaltimento

Fare eseguire lo smaltimento da una ditta specializzata.

8. Avvertenze

Tutte le avvertenze in forma testuale o illustrativa sotto forma di adesivi, scritte e/o sotto forma di istruzioni d'uso sono soggette a naturale usura. Il gestore ha la responsabilità che tali avvertenze siano presenti e che siano sempre leggibili.

Avvertenze danneggiate o mancanti sono da sostituire immediatamente. In caso di necessità contattare il proprio rivenditore.

Conservare assolutamente le istruzioni d'uso in un luogo sicuro per l'uso futuro.

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1. Forord

Denne brukerveiledningen gjelder for bord-, gulv- eller sete-video-spilleautomater. Reservedelsnumre, serviceanvisninger og innstillinger er å finne i den separate original-håndboken. I et tvilstilfelle og spesielt ved problemer med original-håndboken av språklig eller annen type er det absolutt nødvendig å innhente sakkyndig hjelp hos forhandleren!

Rett til endringer i denne håndboken ved nye opplag forbeholdes.

EF-konformitetserklæring

Denne maskinen er i samsvar med de europeiske sikkerhetsdirektivene og standardene. Den faller ikke inn under maskin-direktivet.

2. Sikkerhetsinformasjoner

2.1. Begrepsdefinisjon



ADVARSEL !! Ignorering kan medføre personskader eller skader med døden til følge.

2.2. Generelle forklaringer

Inngrep i maskinen må kun utføres av en elektro-fagmann, ellers er det fare for personskader og alvorlige skader på maskinen. Følgen av dette vil være dyre reparasjoner, utskiftning av systemkomponenter og at garantikrav blir ugyldige.

Installasjons- og reparasjonsarbeider må kun utføres av en elektro-fagmann, servicearbeider kun av opplært personale. Eieren av denne maskinen må påse at alle personer som er involvert i oppstilling, idriftsettelse, vedlikehold, reparasjon og service av denne maskinen er tilsvarende kvalifisert og har lest og forstått de nødvendige sikkerhetsinformasjonene og de tilhørende kapitlene i håndboken før arbeidene påbegynnes.

Brukerveiledningen må under enhver omstendighet oppbevares på et sikkert sted for senere bruk!

Ved usakkyndig håndtering, ikke korrekt anvendelse og egenmektige ombygginger bærer produsenten intet ansvar for ulykker, personskader og materielle skader! Av sikkerhetsmessige årsaker er egenmektige ombygginger og forandringer på automaten strengt forbudt.

Ta kontakt med forhandleren hvis du har spørsmål eller i et tvilstilfelle.

Sikkerhetsinformasjonene må følges nøye! Det dreier seg om din sikkerhet.

2.3. Prinsipielle sikkerhetsinformasjoner

Maskinen må kun settes i drift hvis oppstillingen er utført forskriftsmessig og i samsvar med håndboken.

Maskinens driftsspenning og -frekvens må stemme overens med nettspenningen og -frekvensen. Elektriske data: se typeskiltet på maskinens bakside. Maskinen må kun koples til en forskriftsmessig installert, sikret og jordet stikkontakt.

Oppstilling og idriftsettelse må kun foretas i lukkede, tørre rom! Maskinen må kun benyttes til næringsmessige formål.

Skadede eller manglende advarsler på maskinen skal erstattes omgående.

**ADVARSEL !! Implosjonsfare for billedrøret og neonrørene**

Oppstilling må kun foretas på stabil, bæredyktig grunn, maskinen må eventuelt befestiges. Hvis maskinen faller, kan dette medføre implosjon av billed- eller neonrørene. Glassplinter som slynges bort kan medføre alvorlige personskader.

**ADVARSEL !! Fare for elektrisk støt**

Før maskinen åpnes må ALLTID nettstøpselet trekkes ut av stikkontakten! Berør aldri nettstøpselet med våte hender. Maskinens bakvegg må kun åpnes av en elektro-fagmann. I maskinens indre er det livsfarlig høyspenning som kan berøres og som også foreligger etter at nettstøpselet er frakoplet. Ignorering kan føre til døden eller til alvorlige personskader.

**ADVARSEL !! Brannfare**

Sikringer må kun byttes ut mot foreskrevne sikringer. Ventilasjonsslissene i spilleautomaten må aldri blokkeres. En omgivelsestemperatur på 40°C må ikke overskrides. Nettstrømkretsen og tilførselsledningene må ikke overbelastes.

Ved en defekt skal nettstøpselet omgående trekkes ut av stikkontakten og en reparasjon kun utføres av en elektro-fagmann. Trekk kun i støpselet, ikke i kabelen.

Ved feilsøking må aldri pluggforbindelser i maskinens indre frakoples eller tilkoples under spenning. Reparasjoner skal prinsipielt kun utføres i spenningsløs tilstand!

Det må kun benyttes original-reservedeler.

Ignorering av punktene ovenfor kan være livsfarlig!

3. Kontroll av maskinen

3.1. Kontroll etter levering

Direkte ved levering skal maskinen kontrolleres med hensyn til transportskader. Synlige skader skal noteres på spedisjonspapirene til speditøren som leverer maskinen eller meldes umiddelbart etter at produktet er mottatt, slik at kravene du har er sikret.

Åpne maskinen og kontrollér samtlige komponentgrupper og pluggforbindelser med hensyn til om de sitter korrekt.

Medpakket montasjemateriale skal fjernes fra maskinens indre eller fra kasseboksen.

Hvis nettstøpselet som er levert ikke tilsvarer de foreskrevne bestemmelser i vedkommende land, skal et passende nettstøpsel koples til nettkabelen.

**ADVARSEL !! Fare for elektrisk støt**

Nettstøpselet må kun tilkoples av en elektro-fagmann. Ved ignorering utsetter du deg selv og andre for fare!

Hvis en slik foreligger, skal den separate hodedelen eller seteenheden taes ut av emballasjen. Disse delene må først monteres på oppstillingsstedet, ellers er det fare for skader under transporten.

4. Transport, oppstilling og idriftsettelse

4.1. Valg av oppstillingssted og transport

Oppstilling og idriftsettelse må kun finne sted i lukkede, tørre rom! Oppstilling utendørs eller i fuktige/våte rom er strengt forbudt. Fuktighet som trenger inn i maskinen kan føre til ulykker grunnet elektrisk støt og til feil i maskinen. Unngå direkte solstråling.

Gå gjennom transportveier og -muligheter på oppstillingsstedet før transport. For maskiner med transporttrinser må man være spesielt forsiktig hvis grunnen heller.

Maskinen må kun beveges ved hjelp av et tilstrekkelig antall personer. Utvis forsiktighet ved belsyningsutstyr som henger lavt.

Maskinen skal stilles opp på jevn, bæredyktig grunn. Ventilasjonsåpningene på maskinens bakside må ikke tildekkes. Hold tilstrekkelig avstand til vegg (min. 10 cm).

Ikke plassér maskinen i nærheten av:

- a) Livreddende innretninger, som f.eks.
 - nødutganger,
 - brannslukningsapparater etc.
- b) Beholdere med lett antennelige stoffer, vann eller kjemikalier,
- c) Varmekilder, som f.eks.
 - varmovner,
 - åpninger i klimaanlegg,
 - vinduer med direkte solstråling etc.

Maskinen må ikke utsettes for belastninger som kan medføre funksjonsforstyrrelser eller defekter, som f.eks.

- sterk vibrasjon,
- ekstrem støv- eller smussbelastning,
- direkte solstråling eller varme,
- regn eller fuktighet,
- sterk magnetisme eller radiobølger.

Direkte på maskinens oppstillingssted må det befinne seg en forskriftsmessig installert, jordet og sikret nettstikkontakt.

Strømkretsen som maskinen koples til må ikke overbelastes.

Nettkabelen skal legges på en slik måte at ingen kan snuble i den. Ignorering kan medføre alvorlige personskader eller skader på kabelen.

Nettkabelen må ikke legges i skarp bøy og det må ikke settes tunge gjenstander på den, ellers kan isolasjonen skades, noe som kan føre til berørbar spenning, kortslutning og dermed brann.

4.2. Oppstilling og montasje av maskinen

Plassér maskinen. Ikke stikk i nettstøpselet ennå, første etter at oppstillingen er avsluttet!



ADVARSEL !! Implosjonsfare for billedrøret og neonrørene

Det er absolutt nødvendig å overholde sikkerhetsinstruksene i kapittel 2.3.

4.2.1. Video-bordmaskiner leveres i komplett montert tilstand. Ingen ytterligere montasjearbeider er nødvendige. Sørg for et sikkert oppstillingssted!

4.2.2. Montasjeinstrukser video-gulvmaskin og video-setemaskiner

Hvis slike finnes, skal separate tilbehørsdeler festes sikkert til maskinen ved hjelp av skruene som er medlevert. Hodedelen skal sikres ved hjelp av minst 2 medhjelpere under montasjen. Oppstigningshjelp, f.eks. stige eller trapp, skal benyttes. Hvis slike finnes, skal tilbehørsdelenes pluggforbindelser plugges i.

Opprett jordlederforbindelsene på en sikker måte.

Montasjeinstrukser er å finne i original-håndboken.

I et tvilstilfelle er det absolutt nødvendig å innhente sakkyndig hjelp hos forhandleren!

4.2.2.1. Video-gulvmaskin, mulige leveringsformer:

- a) komplett montert og/eller
- b) med separat pakket hodedel (belyst eller ikke belyst) og/eller
- c) med separat pakket betjeningsenhet

4.2.2.2. Video-setemaskin, mulige leveringsformer:

- a-c) som video-gulvmaskin og/eller i tillegg
- d) med separat pakket seteenhet

4.3. Idriftsettelse

Hvis slike finnes, skal maskinen nivelleres eksakt ved hjelp av de høydejusterbare fotskruene. Maskinen må stå absolutt fast på grunnen. Ved glatte gulv skal det benyttes gummihefter under maskinens føtter.

Alle komponentgrupper og pluggforbindelser skal kontrolleres med hensyn til om de sitter godt. Spesielle jordlederforbindelser for alle berørbare metaldeler skal kontrolleres av en elektro-fagmann med hensyn til om de sitter godt!

Slå av hovedbryteren. Nettstøpselet skal først tilkoples etter at alle punktene ovenfor er kontrollert.

Slå på hovedbryteren. Ved unormale lyder, røyk eller uvanlig lukt etter innkopling, skal nettstøpselet frakoples stikkkontakten øyeblikkelig og en elektro-fagmann konsulteres. I et tvilstilfelle er det absolutt nødvendig å ta kontakt med forhandleren.



ADVARSEL !! Brannfare

Ikke under noen omstendigheter må den defekte maskinen fortsette å være i drift i denne tilstanden.

4.4. Innstillinger

Program- hhv. modellrelaterte innstillinger er oppført i den medleverte original-håndboken.



ADVARSEL !! Fare for elektrisk støt

Det er absolutt nødvendig å overholde sikkerhetsinstruksene i kapittel 2.

I et tvilstilfelle er det absolutt nødvendig å innhente sakkyndig hjelp hos forhandleren!

5. Inspeksjon, vedlikehold og pleie

5.1. Generelle informasjoner



ADVARSEL !! Fare for elektrisk støt

Det er absolutt nødvendig å overholde sikkerhetsinstruksene i kapittel 2.

Nettkabelens tilstand skal kontrolleres med regelmessige mellomrom. Hvis kabelen eller nettstøpselet er skadet, skal maskinen omgående settes ut av drift og repareres av en elektro-fagmann.

Det er absolutt nødvendig å kontrollere advarselene med hensyn til om de foreligger og er leselige, om nødvendig må de skiftes ut (se kapittel 8).

5.2. Vedlikehold

Selve maskinen er vedlikeholdsfri.

5.3. Rengjøring av huset og av den ytre skjermen

1. Slå av maskinen og kople fra nettstøpselet!
2. Rengjør huset og den ytre skjermen med en myk, fuktet (ikke våt) klut og mildt rengjøringsmiddel (det må ikke benyttes løsemiddel-, syre- eller skuremiddelholdige rengjøringsmidler).

6. Service

6.1. Generelle informasjoner



ADVARSEL !! Fare for elektrisk støt

Det er absolutt nødvendig å overholde sikkerhetsinstruksene i kapittel 2.

Ved en defekt skal nettstøpselet øyeblikkelig frakoples stikkontakten og reparasjonen skal kun utføres av en elektro-fagmann. Se serviceinstrukser i original-håndboken.

I et tvilstilfelle er det absolutt nødvendig å innhente sakkyndig hjelp hos forhandleren!

6.2. Utskiftning av defekte belysningslegemer

1. Slå av maskinen og kople fra nettstøpselet!
2. Forsiktig, belysningslegemet kan være varmt!
3. Belysningslegemet må kun skiftes ut mot foreskrevne deler. Se serviceinstrukser i original-håndboken.

7. Maskinen settes ut av drift

7.1. Generelle informasjoner



ADVARSEL !! Fare for elektrisk støt

Det er absolutt nødvendig å overholde sikkerhetsinstruksene i kapittel 2.

7.2. Demontasje

Nettstøpselet frakoples. Alle tilbehørsdeler som er beskrevet i kapittel 4.2 skal demonteres i omvendt rekkefølge. Sikre hodedelen under demontasjonen ved hjelp av minst 2 medhjelpere.

7.3. Flytting

Omtransport og gjenidriftsettelse utføres som beskrevet i kapittel 4.

7.4. Avfallsbehandling

Maskinen skal avfallsbehandles av et godkjent spesialfirma.

8. Advarsler

Advarsler, i tekst eller bilder, som klistremærker, påtrykt og/eller i form av denne brukerveiledningen, er selvsagt utsatt for slitasje. Operatøren bærer ansvaret for at disse foreligger og alltid er i leselig stand.

Skadede eller manglende advarsler skal erstattes omgående. Ta om nødvendig kontakt med forhandleren.

Brukerveiledningen må under enhver omstendighet oppbevares på et sikkert sted for senere bruk!

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1. Voorwoord

Deze gebruiksaanwijzing geldt voor videospeelautomaten op de balie, standautomaten en automaten met zitplaats. Reserveonderdeelnummers, serviceaanwijzingen en instellingen, zie apart bijgesloten origineel handboek. In geval van twijfel vooral ook bij problemen met het begrijpen van de taal of andere problemen met het originele handboek in elk geval de vakkundige hulp van uw dealer inroepen

EG-verklaring van overeenstemming

Dit toestel voldoet aan de veiligheidsrichtlijnen en standaards. Het apparaat valt niet onder de machinerichtlijn.

2. Veiligheidsaanwijzingen

2.1. Begripsbepaling



WAARSCHUWING!! Niet-inachtneming kan personenschade of dodelijk letsel ten gevolg hebben.

2.2. Algemene toelichting

Ingrepen aan het apparaat alleen door elektriciens anders bestaat er gevaar voor letsel alsmede gevaar voor een duurzame beschadiging.

Het gevolg hiervan zijn dure reparaties, vervanging van systeemcomponenten, vervallen van de aanspraak op garantie.

Installatie- en reparatiewerkzaamheden mogen alleen door een elektricien, servicewerkzaamheden alleen door opgeleid personeel plaatsvinden. De eigenaar van het toestel moet ervoor zorgen dat alle personen die met de opstelling, inbedrijfstelling, onderhoud, reparatie en instandhouding van het apparaat te maken hebben, overeenkomstig gekwalificeerd zijn en voor het begin van het werk de noodzakelijke veiligheidsinstructies en de bijbehorende hoofdstukken van het handboek gelezen en begrepen hebben.

De gebruiksaanwijzing absoluut op een veilige plaats voor later gebruik bewaren.

Bij onvakkundig hanteren, niet-reglementaire toepassing en eigenmachtige verbouwingen bestaat er geen aanspraak voor ongevallen, letsel en beschadigingen. Eigenmachtige verbouwingen en veranderingen van de automaat zijn om veiligheidsredenen uitdrukkelijk verboden.

Bij verdere vragen of in geval van twijfel contact met uw dealer opnemen.

De veiligheidsaanwijzingen moeten streng worden nageleefd. Het gaat om uw veiligheid.

2.3. Principiële veiligheidsaanwijzingen

Het apparaat mag alleen in werking gesteld worden wanneer de opstelling volgens de voorschriften en in overeenstemming met het handboek heeft plaatsgevonden.

Bedrijfsspanning en frequentie van het apparaat moet overeenstemmen met de netspanning en -frequentie. Elektrische gegevens zie typeplaatje op de achterzijde van het toestel. Apparaat alleen op behoorlijk geïnstalleerd, beveiligd en geaard stopcontact aansluiten.

Opstelling en inbedrijfstelling alleen in gesloten, droge ruimten. Apparaat mag alleen commercieel worden toegepast.

Beschadigde of ontbrekende waarschuwingaanwijzingen op het toestel moeten onmiddellijk worden vervangen.



WAARSCHUWING!! Implosiegevaar van de beeldbuizen en neonbuizen

Opstelling alleen op stabiele draagkrachtige ondergrond evt. bevestigen. Omvallen toestel kan de implosie van beeldbuizen of neonbuizen ten gevolg hebben. Rondvliegende glasscherven kunnen ernstig letsel veroorzaken.



WAARSCHUWING!! Gevaar door elektrische schokken

Voor het openen van het apparaat altijd de stekker uit het stopcontact trekken! Stekker nooit met natte handen aanraken. Achterwand van het toestel mag alleen door een elektricien geopend worden. Levensgevaarlijke aanraakbare hoogspanning in het inwendige van het toestel die ook na het eruit trekken van de stekker aanwezig zijn. Niet-inachtneming kan dodelijk of ernstig letsel veroorzaken.



WAARSCHUWING!! Brandgevaar

Zekeringen alleen door voorgeschreven zekeringen vervangen. Ventilatiesleuven van de speelautomaat nooit blokkeren. De omgevingstemperatuur mag 40°C niet overschrijden. Stroomcircuit en toevoerleidingen niet overbelasten.

Bij defect onmiddellijk de stekker uit het stopcontact trekken en reparatie alleen door elektriciens laten uitvoeren. Alleen aan de stekker, niet aan het snoer trekken.

Steekverbindingen in het inwendige van het toestel, in het geval van het zoeken naar een fout nooit onder spanning eruit trekken of erop steken. Reparatie principieel in spanningsloze toestand!

Alleen originele reserveonderdelen gebruiken.

Niet opvolgen van de bovengenoemde punten kan levensgevaarlijk zijn.

3. Controle van het toestel

3.1. Controle na de levering

Apparaat direct na de levering op transportschade onderzoeken. Zichtbare beschadigingen op de leverantiebewijs van de leverende expediteur noteren of direct na ontvangst van de goederen melden om uw aanspraken veilig te stellen.

Toestel openen en alle bouwgroepen en steekverbindingen op correct zitten controleren. Bijgesloten montage materiaal uit het inwendige van het toestel of de kassabox nemen. Wanneer de stekker niet overeenkomt met de in het desbetreffende land voorgeschreven norm, de passende stekker aan de netkabel aansluiten.



WAARSCHUWING!! Gevaar door elektrische schokken

Aansluiten van de netstekker alleen door erkende elektriciens. Bij niet-inachtneming brengt u zichzelf en anderen in gevaar.

Indien aanwezig, apart hoofdgedeelte of ziteenheid uit de verpakking nemen. Montage van deze delen pas op de opstellingsplaats, anders evt. beschadiging tijdens het transport.

4. Transport, opstelling en inbedrijfstelling

4.1. Keuze van de opstellingsplaats en transport

Opstelling en inbedrijfstelling alleen binnen gesloten, droge ruimten! Opstelling in de open lucht of in vochtige/natte ruimten is streng verboden. Binnendringend vocht kan ongevallen door elektrische schokken of fouten in het apparaat veroorzaken. Directe zonbestraling vermijden.

Transportwegen en -mogelijkheden op de opstellingsplaats voor het transport controleren. Bij apparaten met transportrollen bijzonder voorzichtig te werk gaan bij hellende ondergrond.

Apparaat alleen met voldoende aantal personen bewegen. Voorzichtig bij lager hangende verlichtingselementen.

Apparaat op gelijkmatige draagkrachtige ondergrond plaatsen. Ventilatieopeningen aan de achterzijde van het toestel niet blokkeren. Voldoende wandafstand (min. 10 cm) aanhouden.

Apparaat niet in de nabijheid van:

- a) levensreddende inrichtingen zoals bijv.
 - nooduitgangen
 - brandblussers enz.
 - b) containers met licht ontvlambare stoffen, water of chemicaliën
 - c) warmtebronnen zoals bijv.
 - verwarmingselementen
 - openingen van airconditioning
 - etalages met directe zonnebestraling enz.
- plaatsen.

Apparaat niet blootstellen aan belasting die tot functiestoring of defect leidt zoals bijv. sterke vibratie

- extreme stof- of vuilbelasting
- directe zonnebestraling of hitte
- regen of vochtigheid
- sterk magnetisme of radiogolven

Direkt op de opstellingsplaats van het toestel moet een behoorlijk geïnstalleerd, geaard, beveiligd stopcontact aanwezig zijn.

Het stroomcircuit waaraan het apparaat is aangesloten, niet overbelasten.

Netkabel zodanig leggen dat niemand erover struikelt. Niet-inachtneming kan ernstig letsel of beschadiging van het kabel ten gevolg hebben.

Netkabel niet scherp knikken of zware voorwerpen erop zetten anders beschadiging van de isolatie met als mogelijk gevolg aanraakbare netspanning, kortsluiting en daardoor brand.

4.2. Opstelling en montage

Apparaat plaatsen, stekker er niet insteken, pas nadat de opstelling afgesloten is.



WAARSCHUWING!! Implosiegevaar van de beeldbuis en neonbuizen

Absoluut de veiligheidsaanwijzingen in hoofdstuk 2.3 inachtnemen.

4.2.1. Video-balietoestellen worden compleet gemonteerd geleverd. Geen verdere montage noodzakelijk. Voor veilige standplaats zorgen.

4.2.2. Montageaanwijzingen voor video-standtoestel en videotoestel met zitplaats

Wanneer aanwezig, aparte accessoires veilig met de in het bijgesloten pak aanwezige schroeven aan het apparaat bevestigen. Hoofdgedeelte tijdens de montage door tenminste twee hulpkrachten laten beveiligen, opstapje bijv. ladder of trapje gebruiken. indien aanwezig, steekverbindingen van de accessoires erop steken.

Veiligheidsaarddraadverbindingen veilig tot stand brengen.

Montage-aanwijzingen, zie origineel handboek.

In geval van twijfel in elk geval de vakkundige hulp van uw dealer gebruiken.

4.2.2.1. Video-standtoestel, leverborm

- a) compleet gemonteerd en/of
- b) met apart ingepakt hoofdgedeelte (verlicht of niet verlicht) en/of
- c) met apart verpakte bedieningseenheid

4.2.2.2. Videotoestel met zitplaats, mogelijke leverbormen

- a-c) net als video-standtoestel en/of extra
- d) met apart verpakte ziteenheid

4.3. Inbedrijfstelling

Indien aanwezig, met hoogte verstelbare voetschroeven het toestel precies nivelleren. Het toestel moet absoluut stevig op de ondergrond staan. Bij gladde vloerbedekking rubberen doppen onder de voeten van het toestel gebruiken.

Alle bouwgroepen en steekverbindingen op vast zitten controleren. Bijzonder verbindingen van veiligheidsaarddraad van alle aanraakbare metalen onderdelen door een elektricien op vast zitten laten controleren.

Hoofdschakelaar uitschakelen. Stekker pas na het controleren van alle bovengenoemde punten erin steken.

Hoofdschakelaar inschakelen. Bij niet normaal geluid, rook of ongewone geur na het inschakelen onmiddellijk de stekker uit het stopcontact trekken en elektricien te hulp roepen. In geval van twijfel in elk geval contact opnemen met uw dealer.



WAARSCHUWING!! Brandgevaar

Het toestel in geen geval in defecte toestand gebruiken

4.4. Instellingen

Instellingen m.b.t. het programma c.q. model staan vermeld in het bijgesloten originele handboek.



WAARSCHUWING!! Gevaar door elektrische schokken

In elk geval de veiligheidsinstructies in hoofdstuk 2 inacht nemen

In geval van twijfel in elk geval de vakkundige hulp van uw dealer inroepen.

5. Inspectie, onderhoud en behandeling

5.1. Algemene aanwijzingen



WAARSCHUWING!! Gevaar door elektrische schokken

In elk geval de veiligheidsinstructies in hoofdstuk 2 inacht nemen

Toestand van de stekker regelmatig controleren. Bij beschadigde kabel of netstekker apparaat onmiddellijk buiten werking stellen en door elektricien laten repareren.

In elk geval de waarschuwingaanwijzingen op aanwezig zijn en leesbaarheid controleren evt. vervangen (zie hoofdstuk 8).

5.2. Onderhoud

Het apparaat zelf is onderhoudsvrij.

5.3. Reinigen van het huis en het buitenste beeldscherm

1. Toestel uitschakelen en stekker eruit trekken.
2. Huis en buitenste beeldscherm met zachte vochtige doek (niet nat) en mild reinigingsmiddel reinigen (geen oplosmiddel-, zuur- of schuurmiddelhoudende reinigingsmiddelen gebruiken).

6. Service

6.1. Algemene aanwijzingen



WAARSCHUWING!! Gevaar door elektrische schokken

In elk geval de veiligheidsinstructies in hoofdstuk 2 inachtnemen

Bij defect netstekker er onmiddellijk uittrekken en reparatie door elektriciens laten uitvoeren. Serviceaanwijzingen, zie origineel handboek.

In geval van twijfel in elk geval de vakkundige hulp van uw dealer inroepen.

6.2. Vervanging van defecte verlichtingselementen

1. Toestel uitschakelen en stekker eruit trekken.
2. Voorzichtig, verlichtingselement kan heet zijn.
3. Verlichtingselementen alleen door voorgeschreven onderdelen vervangen. Serviceaanwijzingen, zie origineel handboek.

7. Buitenwerkingstelling

7.1. Algemene aanwijzingen



WAARSCHUWING!! Gevaar door elektrische schokken

In elk geval de veiligheidsinstructies in hoofdstuk 2 inachtnemen

7.2. Demontage

Stekker eruit trekken. Alle in hoofdstuk 4.2. beschreven originele accessoires in omgekeerde volgorde demonteren. Hoofddeelje tijdens de demontage door tenminste twee hulpkrachten laten beveiligen.

7.3. Verplaatsing

Verplaatsing en hernieuwde inbedrijfstelling uitvoeren zoals beschreven in hoofdstuk 4.

7.4. Als afval verwijderen

Door toegelaten vakbedrijven laten verwijderen.

8. Waarschuwingen

Waarschuwingaanwijzingen in de tekst of afbeelding opschrift en /of in vorm van deze gebruiksaanwijzing zijn onderhevig aan natuurlijke slijtage. De exploitant draagt de verantwoordelijkheid dat deze aanwezig en leesbaar zijn.

Beschadigde of ontbrekende aanwijzingen moeten onmiddellijk worden vervangen. Neem indien noodzakelijk contact op met uw dealer.

Gebruiksaanwijzing in elk geval op een veilige plaats voor later gebruik bewaren.

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1. Introdução

Estas instruções de serviço são válidas para as máquinas de jogo-vídeo para parede e de consola, com e sem assento. Ver no manual de origem fornecido as indicações relativas a peças sobresselentes, instruções de manutenção e regulação do equipamento. Em caso de dúvida na leitura do manual de origem, por dificuldade de compreensão linguística ou outra, solicitar a ajuda do fornecedor impreterivelmente!

O direito da alteração deste manual por nova edição é mantido.

Declaração conforme as leis vigentes na CE

Este equipamento está conforme as directivas de segurança e normas europeias. Não é abrangido pelas directivas comunitárias para máquinas.

2. Instruções de segurança

2.1. Conceito



AVISO !!

A não observância destas instruções pode provocar danos físicos ou ferimentos mortais.

2.2. Esclarecimento geral

O manuseamento do aparelho deve ser efectuado únicamente por pessoal especializado em electricidade, sob pena de perigo de ferimentos ou danos físicos permanentes. Como consequência ter-se-ão reparações mais caras, substituição de componentes do sistema e perda do direito à garantia.

Os trabalhos de instalação e reparação só devem ser efectuados por electricista especializado, os trabalhos de assistência por pessoal com formação adequada. O proprietário deste aparelho deve assegurar-se que qualquer trabalho de montagem, ligação, manutenção, reparação e conservação do equipamento é efectuado por pessoal qualificado que antes do início dos trabalhos leu e compreendeu as necessárias medidas de segurança e os capítulos do manual respeitantes às tarefas a efectuar.

As instruções de serviço devem ser colocadas impreterivelmente em local seguro para utilização futura.

Em caso de manuseamento impróprio, utilização contrária ao determinado ou reconstrução arbitrária, não é assumida qualquer responsabilidade em caso de acidente, ferimento ou prejuízo. Reconstrução arbitrária ou alteração dos equipamentos são proibidas por razões de segurança.

Para mais esclarecimentos ou em caso de dúvida contactar o fornecedor.

As normas de segurança são para serem exactamente cumpridas ! Está em jogo a sua segurança.

2.3. Instruções de segurança elementares

O equipamento só deve ser posto em serviço depois de montado e verificado cuidadosamente segundo as indicações do manual.

A tensão e frequência de serviço para o aparelho devem corresponder à tensão e frequência da rede. Os dados eléctricos encontram-se na chapa na parte de trás do equipamento. O aparelho só deve ser ligado a uma tomada de corrente bem instalada, protegida e ligada à terra.

A colocação e utilização do equipamento só devem ser efectuadas em quarto fechado e seco. O equipamento só pode ser utilizado industrialmente.

As chapas de aviso devem ser imediatamente substituídas em caso de danos ou de falta.



AVISO !! Perigo de implosão do tubo de raios catódicos e das lâmpadas de néon

Instalar e segurar o equipamento só em superfície estável e com capacidade de carga apropriada. Um equipamento instável pode provocar a implosão do tubo de raios catódicos ou das lâmpadas de néon. Os pedaços de vidro resultantes da implosão podem provocar ferimentos muito graves.



AVISO !! Perigo de choque eléctrico

Antes de abrir o equipamento, retirar sempre a ficha da tomada eléctrica. Nunca mexer na tomada com as mãos húmidas. O painel anterior só deve ser aberto por um electricista especializado. A alta tensão remanescente que permanece no interior do equipamento mesmo depois de desligado é mortal. A falta de atenção pode provocar ferimentos graves ou mortais.



AVISO !! Perigo de incêndio

A protecção eléctrica só pode ser substituída pela recomendada. As aberturas de respiração do aparelho nunca devem ser bloqueadas. A temperatura ambiente não deve ultrapassar os 40°C. As cargas da rede e dos condutores não devem ser sobrecarregadas.

Em caso de avaria, retirar imediatamente a tomada da ficha e efectuar a reparação só por electricista especializado. Puxar pela ficha, nunca pelo cabo.

Na pesquisa da avaria, nunca ligar ou desligar em tensão as fichas internas do equipamento. Por princípio, a reparação deve ser efectuada sem corrente!

Utilizar unicamente peças sobresselentes originais.

O não cumprimento das regras acima descritas pode ter consequências mortais!

3. Controlo do equipamento

3.1. Controlo depois da entrega

A pesquisa de danos de transporte deve ser efectuada imediatamente após a sua recepção. Anotar imediatamente na folha de carga da transportadora os danos visíveis ou durante o acto de recepção, para assegurar os seus direitos.

O equipamento deve ser aberto e todos os elementos de construção e fichas de ligação verificados no respeito à rigidez de montagem.

Retirar do interior do equipamento ou caixa adjunta os materiais de montagem complementares.

No caso da ficha eléctrica não corresponder às normas existentes no país de destino, montar uma ficha apropriada no cabo de ligação.



AVISO !! Perigo de choque eléctrico

Só um electricista especializado deve montar a ficha. O não cumprimento desta medida de segurança põe em perigo você e os outros!

Caso exista, retirar a parte superior e o assento da embalagem. Fazer a montagem destes só no local escolhido, pois podem-se danificar durante o transporte.

4. Transporte, Instalação e Colocação em funcionamento

4.1. Escolha do local e transporte

A colocação e utilização do equipamento só em quarto fechado e seco. A colocação ao ar livre ou em ambiente húmido ou molhado é estritamente proibida. A existência de humidade

no interior do equipamento pode provocar acidentes através de choque eléctrico ou erros de funcionamento do aparelho. Evitar os raios solares directos.

Verificar primeiro o caminho e o lugar de colocação. Com equipamentos providos com rodas de transporte, tomar especial atenção a caminhos íngremes.

Deslocar o equipamento utilizando o número de pessoas necessárias. Tomar atenção com a existência de lâmpadas baixas.

Colocar o equipamento em superfície nivelada e de carga apropriada. Não tapar as aberturas para o ar na parte de trás. Afastar da parede o equipamento (min. 10 cm).

Não colocar o equipamento na proximidade de:

- a) equipamentos de segurança, i.e.:
 - saídas de emergência,
 - extintores, etc..
- b) contentores com substâncias facilmente inflamáveis, água ou produtos químicos.
- c) corpos quentes, i.e.:
 - aquecedores,
 - aberturas da instalação do ar condicionado,
 - montras directas ao sol, etc..

Não colocar os equipamentos em condições que possam provocar avarias ou defeitos de funcionamento, i.e.:

- vibrações fortes,
- muita sujidade ou pó,
- raios de sol directos ou aquecimento,
- chuva ou humidade,
- forte magnetismo ou ondas electromagnéticas.

Junto ao local de instalação deve existir uma tomada eléctrica devidamente instalada, protegida e ligada à terra.

A carga do circuito eléctrico utilizado para o aparelho não deve ser ultrapassada.

O cabo eléctrico deve ser instalado de modo que não se possa tropeçar nele. O não cumprimento desta medida de segurança pode ocasionar ferimentos e/ou danos no cabo.

Não vincar o cabo eléctrico nem colocar pesos em cima dele, sob pena de o isolamento ficar danificado e o condutor em carga ficar à vista, podendo ocasionar curto-circuitos e mesmo fogo.

4.2. Instalação e Montagem dos Aparelhos

Situar o equipamento. Não ligar à corrente antes de finalizar a instalação.



AVISO !! Perigo de implosão do tubo de raios catódicos e das lâmpadas de néon

Cumprir absolutamente as directivas de segurança do ponto 2.3.

4.2.1. As Consolas Vídeo de parede são fornecidos completamente montados. Nenhuma montagem adicional é necessária. Prover um lugar seguro!

4.2.2. Montagem de Consolas Vídeo vertical e video com assento

As peças acessórias, caso existam, devem ser devidamente aparafusadas ao equipamento com os parafusos fornecidos. A parte superior necessita de dois ajudantes durante a montagem. Utilizar meios de elevação próprios, i.e., escada ou escadote. Caso existam, ligar as fichas do equipamento acessório.

Assegurar a ligação do condutor de protecção.

Para as instruções de montagem ver o manual de origem.

Em caso de dúvida, utilizar únicamente a ajuda competente do fornecedor!

4.2.2.1. Consola Vídeo Vertical, possíveis formas de fornecimento:

- a) Completamente montado e/ou
- b) com a parte superior em embalagem separada (com ou sem iluminação) e/ou
- c) com unidade de utilização em embalagem separada

4.2.2.2. Consola Vídeo com assento, possíveis formas de fornecimento:

- a-c) como para a Consola Vídeo Vertical e/ou como acessório
- d) com unidade de assento em embalagem separada

4.3. Colocação em serviço

Se for necessário, nivelar exactamente por meio dos pés roscados o equipamento. O equipamento deve ficar bem agarrado ao chão. Em piso escorregadio, utilizar capas de borracha nos pés do equipamento.

Todos os elementos de construção e ligações devem ser verificados quanto à rigidez. Em especial, as ligações à terra de todas as partes metálicas à vista devem ser verificadas por electricista especializado.

Desligar o interruptor geral. A ligação à corrente só depois de verificados todos os pontos anteriores.

Ligar o interruptor geral. No caso de aparecerem ruídos, fumos ou cheiros inesperados logo após a ligação, tirar rapidamente a ficha da tomada e consultar um electricista especializado. Em caso de dúvida, consultar impreterivelmente o fornecedor.



AVISO !! Perigo de incêndio

Em caso algum continuar a utilizar o equipamento enquanto defeituoso

4.4. Afinação

Utilizar as instruções do manual de origem para a afinação consoante o programa e modelo em causa



AVISO !! Perigo de choque eléctrico

Cumprir absolutamente as directivas de segurança do ponto 2.

Em caso de dúvida, impreterivelmente seguir o conselho especializado do fornecedor.

5. Inspeção, Manutenção e Limpeza

5.1. Considerações gerais



AVISO !! Perigo de choque eléctrico

Cumprir absolutamente as directivas de segurança do ponto 2.

Verificar o estado do cabo eléctrico regularmente. Em caso de danificação do cabo ou da ficha, desligar imediatamente o aparelho e mandar reparar por electricista especializado.

Verificar impreterivelmente a existência e a legibilidade da chapa de aviso do equipamento e substitui-la se necessário (ver Ponto 8).

5.2. Manutenção

O equipamento em si é livre de manutenção.

5.3. Limpeza da caixa exterior e do écran

1. Desligar o equipamento e retirar a ficha da tomada de corrente.
2. Limpar a caixa exterior do aparelho e o écran com um pano macio levemente humedecido (sem ser molhado) e com um detergente neutro (não usar produtos de limpeza tais como diluentes, ácidos ou abrasivos).

6. Assistência

6.1. Considerações gerais



AVISO !! Perigo de choque eléctrico

Cumprir absolutamente as directivas de segurança do ponto 2.

Em caso de avaria, desligar imediatamente o equipamento e retirar a ficha da tomada e proceder à reparação únicamente por electricista especializado. Para mais instruções ver o manual de origem.

Em caso de dúvida impreterivelmente seguir o conselho especializado do fornecedor.

6.2. Substituição das Lâmpadas de Iluminação quando estragadas

1. Desligar o equipamento e retirar a ficha da tomada!
2. Atenção, a lâmpada pode estar ainda quente!
3. Substituir a lâmpada de iluminação por outra devidamente aprovada. Para sugestões de serviço ver o manual de origem.

7. Retirar de serviço

7.1. Considerações gerais



AVISO !! Perigo de choque eléctrico

Cumprir absolutamente as directivas de segurança do ponto 2.

7.2. Desmontagem

Retirar a ficha da tomada. Todos os elementos acessórios descritos no ponto 4.2. devem ser desmontados em ordem inversa. A desmontagem da parte superior deve ser assistida por dois ajudantes.

7.3. Deslocamento

O transporte e nova instalação devem ser efectuadaa segundo as prescrições do ponto 4.

7.4. Reciclagem

O equipamento deve ser reciclado por uma firma especializada e autorizada.

8. Aviso de precaução

O texto e imagens das placas de aviso, sejam elas impressas ou em auto colante e/ou as páginas destas instruções sofrem um desgaste natural com o tempo. O encarregado local tem a responsabilidade sobre a existência e legibilidade dos mesmos.

As chapas de aviso em falta ou danificadas devem ser substituídas imediatamente. Em caso de necessidade, contactar o fornecedor.

As instruções de serviço devem ser colocadas impreterivelmente em local seguro para utilização futura.

INNEHÅLLSFÖRTECKNING

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1. Förord

Denna bruksanvisning gäller för TV-spel för bänk-, stå- och sittautomater. För reservdelsnummer, serviceanvisningar och inställningar, se den medföljande separata originalhandboken. Ta alltid kontakt med din återförsäljare om du är osäker på innehållet i originalhandboken, även vid språksvårigheter eller liknande.

Med förbehåll för ändringar genom nya upplagor av denna handbok.

EG-försäkran om överensstämmelse

Denna apparat överensstämmer med europeiska säkerhetsdirektiv och normer. Den berörs inte av maskindirektivet.

2. Säkerhetsanvisningar

2.1. Begreppsdefinitioner



WARNING !!

Om säkerhetsanvisningarna inte följs kan detta leda till personskador eller skador med dödlig utgång!

2.2. Allmänna förklaringar

Arbeten på apparaten för endast utföras av elteknisk personal, i annat fall finns det risk för personskador eller bestående materiella skador. Följderna kan bli dyra reparationer, utbyte av systemkomponenter samt att garantin inte längre gäller.

Installations- och reparationsarbeten får endast utföras av elteknisk personal och servicearbeten endast av instruerad personal. Ägaren av denna apparat ansvarar för att alla personer som är inblandade i uppställning, drifttagning, underhåll och reparation av apparaten har de rätta kvalifikationerna och att de alltid har läst och förstått de nödvändiga säkerhetsanvisningarna och de tillhörande kapitlen i handboken.

Förvara alltid bruksanvisningen på ett säkert ställe för senare bruk.

Vi påtar oss inget ansvar för olyckor, personskador och materiella skador som upptår till följd av felaktig användning eller egenmäktiga förändringar av apparaten.

Egenmäktiga ombyggnader eller förändringar av automaten är uttryckligen förbjudna av säkerhetsskäl.

Om du har ytterligare frågor eller är osäker om innehållet, ta kontakt med din återförsäljaren. Säkerhetsanvisningarna skall följas till punkt och pricka. Det handlar om din säkerhet!

2.3. Grundläggande säkerhetsanvisningar

Ta endast apparaten i drift om den är uppställd enligt föreskrifterna och i överensstämmelse med handboken.

Apparatens driftspänning och -frekvens skall överensstämma med nätspänningen och -frekvensen. För elektriska data, se typskylten på apparatens baksida. Anslut endast apparaten till ett korrekt installerat, säkrat och jordat eluttag.

Ställ endast upp apparaten och ta den i drift i slutna och torra rum. Apparaten får endast användas yrkesmässigt.

Skadade eller saknade varningstexter/-bilder på apparaten skall genast ersättas.

**VARNING !!****Implosionsrisk för bildrör och neonrör**

Ställ endast upp apparaten på ett stabilt, bärkraftigt underlag och fäst den vid behov. Om apparaten välter kan bildröret eller neonröret implodera. Kringflygande glassplitter kan leda till svåra personskador.

**VARNING !!****Risk för elektriska stötar**

Innan apparaten öppnas skall stickkontakten ALLTID dras ut ur eluttaget. Rör aldrig vid stickkontakten med våta händer. Apparaten baksida får endast öppnas av elteknisk personal. Det förekommer livsfarlig, oskyddad högspänning inuti apparaten som ligger kvar även sedan stickkontakten dragits ur. Risk för dödsfall eller svåra personskador.

**VARNING !!****Brandfara**

Byt endast ut säkringar mot föreskrivna säkringar. Blockera aldrig spelautomatens luftintag. Omgivningstemperaturen får inte överstiga 40°C. Överbelasta inte nätet eller matningskablar.

Dra genast ut stickkontakten ur eluttaget vid fel och låt endast en eltekniker utföra reparationen. Dra i stickkontakten och inte i kabeln.

Dra aldrig ut eller stick in ett kontaktdon inuti apparaten vid felsökning när spänningen är tillslagen. Utför i princip reparationsarbetena när apparaten är spänningslös.

Använd endast original reservdelar!

Ovanstående punkter måste följas, annars finns risk för livshotande skador!

3. Apparatkontroll

3.1. Kontroll efter mottagningen

Undersök apparaten direkt när den mottagits för att konstatera ev. transportskador. Notera synliga skador på mottagningsbeviset från speditiionsfirman eller meddela dem omedelbart efter det att varorna mottagits, för att säkra era anspråk.

Öppna apparaten och kontrollera att alla moduler och kontaktdon sitter som de skall.

Ta ut medföljande monteringsmaterial från apparatens inre eller från myntboxen.

Om den medföljande stickkontakten inte överensstämmer med den nationella standarden, skall en passande stickkontakt anslutas till nätkabeln.

**VARNING !!****Risk för elektriska stötar**

Stickkontakten från endast anslutas till nätkabeln av en eltekniker. I annat fall riskerar man att skada sig själv och andra.

Ta först ut den eventuella separata huvuddelen eller sättenheten ur förpackningen. Dessa delar skall monteras först på uppställningsplatsen, annars skadas de under transporten.

4. Transport, uppställning och drifttagning

4.1. Val av uppställningsplats och transport

Ställ endast upp apparaten och ta den i drift i slutna och torra rum. Uppställning i det fria eller i fuktiga/våta rum är strängt förbjuden. Inträngande fukt kan leda till olyckor genom elektriska stötar eller till fel inuti apparaten. Utsätt inte apparaten för direkt solstrålning.

Kontrollera transportvägar och -möjligheter till uppställningsplatsen innan transporten utförs.

Var särskilt försiktig på sluttande golv när apparaten förflyttas på transportrullar.

När apparaten förflyttas skall ett tillräckligt antal personer delta i arbetet. Var försiktig vid lågt hängande belysningsarmaturer.

Ställ endast upp apparaten på ett stabilt, bärkraftigt underlag. Täck inte för luftintagen på apparatens baksida. Se till att hålla tillräckligt avstånd till väggen (ca 10 cm).

Placera inte apparaten i närheten av:

- a) livräddningsanordningar som t ex:
 - nödutgångar,
 - brandsläckare o s v;
- b) behållare med lättantändliga ämnen, vatten eller kemikalier;
- c) värmeelement, som t ex:
 - öppningar på klimatanläggningar,
 - skyltfönster med direkt solinstrålning o s v.

Utsätt inte apparaten för belastningar som kan leda till funktionsstörningar eller fel, som t ex:

- starka vibrationer,
- extrem belastning från damm eller smuts,
- direkt solinstrålning eller hög värme,
- regn eller fuktighet,
- stark magnetism eller radiovågor.

Vid uppställningsplatsen skall det finnas ett korrekt installerat, jordat och säkrat eluttag.

Överbelasta inte det strömnät som apparaten är ansluten till.

Dra nätkabeln på ett sådant sätt att ingen snubblar över den. I annat fall kan det leda till svåra personskador eller skador på nätkabeln.

Bocka inte nätkabeln eller ställ tunga föremål på den, för att inte skada isoleringen. I annat fall finns det risk för oskyddad nätspänning, kortslutning och därmed fara för brand.

4.2. Uppställning och montering av apparaten

Placera apparaten på uppställningsplatsen och stick ännu inte in stickkontakten i eluttaget. Detta görs när uppställningen är helt avslutad.



VARNING !!

Implosionsrisk för bildrör och neonrör

Säkerhetsanvisningarna i avsnitt 2.3 måste ovillkorligen följas!

4.2.1. TV-spel för bänkautomater levereras komplett monterade. Ingen ytterligare montering är nödvändig. Se till att apparaten står säkert.

4.2.2. Monteringsanvisningar för TV-spel i stå- och sittautomater

Fäst ev. separata tillbehör delar säkert på apparaten med skruvarna i den medföljande förpackningen. Huvuddelen skall hållas fast av minst två medhjälpare under monteringen; använd stege eller pall. Anslut ev. kontaktdon på tillbehör delarna.

Upprätta säkra skyddsledarförbindelser.

För monteringsanvisningar, se originalhandboken.

Om du är osäker, ta alltid kontakt med din återförsäljare.

4.2.2.1. TV-spel i ståautomater; leveransalternativ:

- a) komplett monterad och/eller
- b) med separat medföljande huvudel (med eller utan belysning) och/eller
- c) med separat medföljande manöverenhet.

4.2.2.2. TV-spel i sittautomater; leveransalternativ:

- a-c) som för ståautomater och/eller
- c) med separat medföljande sittenhet.

4.3. Drifttagning

Nivellera apparaten exakt med hjälp av de justerbara fotskruvarna. Apparaten måste stå helt stadigt på underlaget. Sätt gummiskydd på apparatfötterna om golvet är halt.

Kontrollera att alla moduler och kontaktdon sitter säkert. Särskilt skall skyddsledarna till alla åtkomliga metalldelar kontrolleras av en eltekniker.

Slå från nätströmbrytaren. Stick in stickkontakten först sedan alla de ovanstående punkterna kontrollerats.

Slå till nätströmbrytaren. Vid onormalt ljud, lukt eller rökbildning efter inkopplingen skall stickkontakten genast dras ut ur eluttaget och en eltekniker kontaktas. Om du är osäker, kontakta alltid din återförsäljare.



VARNING !!

Brandfara

Den defekta apparaten får under inga omständigheter tas i bruk.

4.4. Inställningar

För inställningar beroende på olika program och modeller, se den medföljande originalhandboken.



VARNING !!

Risk för elektriska stötar

Säkerhetsanvisningarna i avsnitt 2 måste ovillkorligen följas!

Om du är osäker, kontakta alltid din återförsäljare.

5. Inspektion, underhåll och service

5.1. Allmänna anvisningar



VARNING !!

Risk för elektriska stötar

Säkerhetsanvisningarna i avsnitt 2 måste ovillkorligen följas!

Kontrollera nätkabelns skick regelbundet. Om kabeln eller stickkontakten är skadade skall apparaten genast tas ur drift och repareras av en eltekniker.

Kontrollera ovillkorligen att varningstexterna/-bilderna är på plats och är läsbara, byt ut dem vid behov (se avsnitt 8).

5.2. Underhåll

Själva apparaten är underhållsfri.

5.3. Rengöring av huset och den yttre bildskärmen

1. Slå från apparaten och dra ut stickkontakten ur eluttaget.
2. Rengör huset och den yttre bildskärmen med en mjuk, fuktig (ej våt) duk och ett mildt rengöringsmedel (inget syrahaltigt rengöringsmedel eller rengöringsmedel som innehåller lösningsmedel eller slipmedel).

6. Service

6.1. Allmänna anvisningar



VARNING !! Risk för elektriska stötar

Säkerhetsanvisningarna i avsnitt 2 måste ovillkorligen följas!

Vid fel skall stickkontakten genast dras ut ur eluttaget och apparaten repareras av en eltekniker. För serviceanvisningar, se originalhandboken.

Om du är osäker, ta alltid kontakt med din återförsäljare.

6.2. Byte av defekta lampor

1. Slå från apparaten och dra ut stickkontakten ur eluttaget.
2. Var försiktig; lamporna kan vara heta.
3. Byt endast ut lamporna mot föreskrivna reservdelar. För serviceanvisningar, se originalhandboken.

7. Urdrifftagning

7.1. Allmänna anvisningar



VARNING !! Risk för elektriska stötar

Säkerhetsanvisningarna i avsnitt 2 måste ovillkorligen följas!

7.2. Demontering

Dra ut stickkontakten ur eluttaget. Demontera alla tillbehörsdelarna i avsnitt 4.2 i omvänd ordningsföljd. Huvuddelen skall hållas fast av minst två medhjälpare under demonteringen.

7.3. Förflyttning

Förflyttning och ny drifftagning skall göras såsom beskrivs i avsnitt 4.

7.4. Avfallshantering

Låt ett godkänt avfallsföretag ta hand om den uttjänta apparaten.

8. Varningstexter/-bilder

Varningstexter eller -bilder i form av etiketter, tryck och/eller i denna bruksanvisning utsätts för naturligt slitage. Användaren ansvarar för att de finns tillhands och är läsbara.

Skadade eller saknade varningstexter/-bilder skall genast ersättas. Kontakta vid behov din återförsäljare.

Förvara alltid bruksanvisningen på ett säkert ställe för senare bruk.

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 - 7.2. Αποσυναρμολόγηση
 - 7.3. Μετατόπιση
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- 8. Προειδοποιητικές υποδείξεις**

1. Πρόλογος

Οι παρούσες οδηγίες λειτουργίας ισχύουν για ηλεκτρονικές συσκευές βιντεοπαιχνιδιών μπαρ, καθιστές ή ορθές. Νούμερα παραγγελίας ανταλλακτικών, οδηγίες σέρβις και ρυθμίσεις βλέπε στο ξεχωριστό συνημμένο γνήσιο εγχειρίδιο λειτουργίας. Σε περίπτωση αμφιβολιών, ιδιαίτερα σε δυσκολίες συνεννόησης γλωσσικής ή άλλης μορφής με το γνήσιο εγχειρίδιο λειτουργίας, να ζητάτε οπωσδήποτε την ειδική βοήθεια του αντιπροσώπου σας!

Διατηρούμε το δικαίωμα αλλαγών του παρόντος εγχειριδίου σε νέες εκδόσεις.

Δήλωση Ανταπόκρισης Ε.Ε.

Η συσκευή αυτή ανταποκρίνεται στις ευρωπαϊκές Οδηγίες Ασφαλείας και Πρότυπα. Δεν υπόκειται στην Οδηγία περί Μηχανών.

2. Υποδείξεις ασφαλείας

2.1. Ορισμός έννοιας



ΠΡΟΣΟΧΗ !!

Η μη τήρηση των οδηγιών μπορεί να προκαλέσει σωματικές βλάβες ή θανατηφόρους τραυματισμούς.

2.2. Γενικές εξηγήσεις

Επεμβάσεις στη συσκευή επιτρέπεται να γίνονται μόνο από ειδικό ηλεκτρολόγο, διαφορετικά υπάρχει κίνδυνος τραυματισμού ή διαρκούς βλάβης της συσκευής. Οι συνέπειες θα ήταν ακριβές επισκευές, αντικαταστάσεις εξαρτημάτων του συστήματος, εξάλειψη των δικαιωμάτων εγγύησης.

Οι εργασίες εγκατάστασης και επισκευής πρέπει να εκτελούνται μόνο από ε ι δ ι κ ό ηλεκτρολόγο, εργασίες σέρβις μόνο από ενημερωμένο προσωπικό. Ο ιδιοκτήτης αυτής της συσκευής πρέπει να είναι σίγουρος ότι όλα τα άτομα που έχουν να κάνουν με την εγκατάσταση, θέση λειτουργίας, φροντίδα, επισκευή και συντήρηση της συσκευής, έχουν την απαραίτητη εξειδίκευση και ότι πριν από την έναρξη των εργασιών διάβασαν και κατανόησαν τις απαραίτητες οδηγίες ασφαλείας και τα σχετικά κεφάλαια του εγχειριδίου.

Οι οδηγίες λειτουργίας πρέπει να φυλάσσονται οπωσδήποτε σε ασφαλές μέρος για να μπορούν να χρησιμοποιηθούν αργότερα!

Σε περίπτωση ακατάλληλου χειρισμού, αντικανονικής χρήσης και αυθαίρετων μετατροπών πάνω στη συσκευή, δεν αναλαμβάνεται απολύτως καμία ευθύνη για ατυχήματα, τραυματισμούς και βλάβες! Για λόγους ασφαλείας απαγορεύονται αυστηρώς αυθαίρετες μετατροπές και αλλαγές της αυτόματης ηλεκτρονικής συσκευής.

Σε περίπτωση περαιτέρω ερωτήσεων ή αμφιβολιών απευθυνθείτε στον αντιπρόσωπό σας.

Οι υποδείξεις ασφαλείας πρέπει να τηρούνται οπωσδήποτε! Αφορούν την ασφάλειά σας.

2.3. Βασικές υποδείξεις ασφαλείας

Η συσκευή επιτρέπεται να λειτουργεί μόνο εφόσον έγινε η προδιαγραμμένη και σύμφωνα με το εγχειρίδιο εγκατάσταση.

Η λειτουργική τάση και συχνότητα της συσκευής πρέπει να ανταποκρίνονται στην τάση και συχνότητα δικτύου. Τα ηλεκτρικά στοιχεία αναφέρονται στην πινακίδα τύπου της συσκευής. Η συσκευή πρέπει να συνδέεται μόνο σε σωστά εγκαταστημένο, ασφαλισμένο και γειωμένο ρευματοδότη.

Η εγκατάσταση και λειτουργία επιτρέπεται μόνο μέσα σε κλειστούς και ξηρούς χώρους! Επιτρέπεται μόνο η επαγγελματική χρήση της συσκευής!

Πρέπει να γίμεται αμέσως αντικατάσταση χαλασμένων ή ανύπαρκτων προειδοποιητικών υποδείξεων.



ΠΡΟΣΟΧΗ !!

Εσωτερική έκρηξη λυχνίων και λαμπτήρων αερίου νέου

Εγκατάσταση μόνο πάνω σε σταθερή και ανθεκτική επιφάνεια, εν ανάγκη στερεώνετε τη συσκευή. Κατά το πέσιμο της συσκευής μπορεί να προκληθεί εσωτερική έκρηξη των λυχνίων και των λαμπτήρων αερίου νέου. Τα σπασμένα γυαλιά μπορεί να προκαλέσουν πολύ βαριά τραύματα.



ΠΡΟΣΟΧΗ !!

Κίνδυνος ηλεκτροπληξίας

Πριν ανοίξετε τη συσκευή πρέπει να βγάξετε ΠΑΝΤΟΤΕ το ρευματολήπτη από την πρίζα! Μην πιάνετε ποτέ το ρευματολήπτη με βρεγμένα χέρια. Το πίσω μέρος της συσκευής επιτρέπεται να ανοιχτεί μόνο από ειδικό ηλεκτρολόγο. Πολύ επικίνδυνες υψηλές τάσεις στο εσωτερικό της συσκευής, οι οποίες συνεχίζουν να υπάρχουν και μετά την εξαγωγή του ρευματολήπτη από την πρίζα. Η μη τήρηση μπορεί να επιφέρει το θάνατο ή επικίνδυνους τραυματισμούς.



ΠΡΟΣΟΧΗ !!

Κίνδυνος πυρκαγιάς

Η αντικατάσταση των ασφαλειών επιτρέπεται να γίνεται μόνο με τις προδιαγραμμένες ασφάλειες. Μην καλύπτετε ποτέ τις σχισμές αερισμού της συσκευής. Η θερμοκρασία περιβάλλοντος δεν επιτρέπεται να υπερβαίνει ποτέ τους 40°C. Μην υπερφορτώνετε το κύκλωμα ρεύματος και τους αγωγούς τροφοδότησης.

Σε περίπτωση βλάβης βγάξετε αμέσως το ρευματολήπτη από την πρίζα και επιδιορθώστε τη βλάβη μόνο με ειδικό ηλεκτρολόγο. Τραβάτε μόνο το βύσμα και ποτέ το καλώδιο.

Σε περίπτωση αναζήτησης κάποιας βλάβης της συσκευής, μην εμβυσματώνετε και μην βγάξετε του συνδέσμους στο εσωτερικό της συσκευής, εάν η συσκευή βρίσκεται υπό τάση. Η επισκευή γίνεται μόνο όταν η συσκευή δεν βρίσκεται υπό τάση!

Χρησιμοποιείτε μόνο γνήσια ανταλλακτικά.

Η μη τήρηση των ανωτέρω σημείων μπορεί να οδηγήσει σε κίνδυνο της σωματικής σας ακεραιότητας!

3. Έλεγχος συσκευής

3.1. Έλεγχος μετά την παράδοση

Αμέσως μετά την παράδοση της συσκευής κάνετε έλεγχο για τυχόν ζημιές μεταφοράς. Εμφανείς βλάβες πρέπει να τις σημειώσετε στα έντυπα φορτωτικής του μεταφορέα ή να τις δηλώσετε αμέσως μετά την παραλαβή του εμπορεύματος, για να μπορέσετε έτσι να εξασφαλίσετε τις αξιώσεις σας.

Ανοίξτε τη συσκευή και κάνετε έλεγχο της κανονικής εφαρμογής όλων των δομοστοιχείων και συνδέσεων.

Αφαιρέστε το συνημμένο υλικό συναρμολόγησης από το εσωτερικό της συσκευής ή από το κουτί ταμείου.

Σε περίπτωση που ο διαθέσιμος ρευματολήπτης δεν ανταποκρίνεται στις προδιαγραφές της χώρας σας, συνδέστε το κατάλληλο βύσμα στο καλώδιο.



ΠΡΟΣΟΧΗ !!

Κίνδυνος ηλεκτροπληξίας

Η σύνδεση του ρευματολήπτη γίνεται μόνο από ειδικό ηλεκτρολόγο. Εάν δεν τηρηθεί αυτό, εκθέτετε σε κίνδυνο τον εαυτόν σας και τους άλλους!

Εάν υπάρχουν διαθέσιμα ξεχωριστό τμήμα κεφαλής ή μονάδα καθίσματος, τα βγάζετε από τη συσκευασία. Το μοντάρισμα των εξαρτημάτων αυτών πρέπει να γίνει στον τόπο εγκατάστασης, διαφορετικά υπάρχει κίνδυνος βλάβης κατά τη μεταφορά.

4. Μεταφορά, εγκατάσταση και θέση λειτουργίας

4.1. Επιλογή τόπου εγκατάστασης και μεταφορά

Η εγκατάσταση και λειτουργία επιτρέπεται μόνο μέσα σε κλειστούς και ξηρούς χώρους! Η εγκατάσταση σε υπαίθριους ή υγρούς χώρους απαγορεύεται αυστηρώς. Εάν εισχωρήσει υγρασία μέσα στη συσκευή, μπορεί να προκληθούν ατυχήματα ηλεκτροπληξίας ή βλάβες στο εσωτερικό της συσκευής. Αποφεύγετε την έκθεση της συσκευής σε άμεση ηλιακή ακτινοβολία.

Ελέγχετε τους δρόμους μεταφοράς και τις δυνατότητες εγκατάστασης πριν να κάνετε τη μεταφορά. Ιδιαίτερη προσοχή σε συσκευές με ρόδες μεταφοράς σε κατηφορικά δάπεδα.

Η μεταφορά της συσκευής πρέπει να γίνεται με επαρκή αριθμό ατόμων. Προσοχή σε χαμηλά κρεμασμένα φωτιστικά σώματα.

Τοποθετείτε τη συσκευή σε επίπεδη, σταθερή και ανθεκτική επιφάνεια. Μην καλύπτετε ποτέ τις σχισμές αερισμού της συσκευής. Διατηρείτε επαρκή απόσταση από τον τοίχο (τουλάχισ. 10 εκατ.).

Μην τοποθετείτε τη συσκευή κοντά σε:

- α) διασσωστικούς εξοπλισμούς, όπως π.χ.:
 - εξόδους κινδύνου
 - πυροσβεστήρες κ.λπ.
- β) δοχεία με εύφλεκτες ύλες, νερό ή χημικές ουσίες,
- γ) πηγές θερμότητας, όπως π.χ.:
 - σώματα καλοριφέρ
 - ανοίγματα συστημάτων κλιματισμού
 - βιτρίνες με άμεση ηλιακή ακτινοβολία κ.λπ.

Μην εκθέτετε τη συσκευή σε φόρτο, που προκαλεί λειτουργικές διαταραχές ή βλάβες, όπως π.χ. σε:

- ισχυρές δονήσεις
- σκόνες και βρωμιές
- άμεση ηλιακή ακτινοβολία ή θερμότητα
- βροχή ή υγρασία
- ισχυρό μαγνητικό πεδίο ή ραδιοκύματα

Στον τόπο εγκατάστασης πρέπει να υπάρχει διαθέσιμος σωστά τοποθετημένος, γειωμένος και ασφαλισμένος ρευματοδότης.

Μην υπερφορτώνετε το κύκλωμα ρεύματος που είναι συνδεδεμένη η συσκευή.

Η τοποθέτηση του καλωδίου πρέπει να γίνει έτσι, ώστε να μην σκοντάφτει κανένας επάνω του. Η μη τήρηση μπορεί να οδηγήσει σε σοβαρούς τραυματισμούς ή σε βλάβη του καλωδίου.

Μην κάμπτετε ισχυρά το καλώδιο και μην τοποθετείτε επάνω του βαριά αντικείμενα, γιατί μπορεί να προκληθεί ζημιά στη μόνωση με δυνατά επακόλουθα εκτεθειμένη τάση, βραχυκύκλωμα και ενδεχόμενη πρόκληση πυρκαγιάς.

4.2. Εγκατάσταση και συναρμολόγηση της συσκευής

Τοποθετείτε τη συσκευή, κάνετε πλήρη εγκατάσταση και μετά βάζετε το ρευματολήπτη στην πρίζα.



ΠΡΟΣΟΧΗ !! Εσωτερική έκρηξη λυχνίων και λαμπτήρων αερίου νέου
Τηρείτε οπωσδήποτε τις υποδείξεις ασφαλείας στο κεφάλαιο 2.3.

4.2.1. Συσσκευές Video μπαρ παραδίδονται σε πλήρη συναρμολόγηση. Δεν είναι απαραίτητες άλλου είδους συναρμολογήσεις. Εξασφαλίζετε σταθερή θέση εγκατάστασης!

4.2.2. Οδηγίες εγκατάστασης ως ορθή συσκευή Video και καθιστή συσκευή Video
Εάν υπάρχουν διαθέσιμα, στερεώνετε σταθερά τα ξεχωριστά εξαρτήματα στη συσκευή με τις συνημμένες βίδες. Το εξάρτημα κεφαλής πρέπει να το κρατάνε τουλάχιστον δύο βοηθοί κατά την εγκατάσταση. Χρησιμοποιείτε σκάλα ή άλλη σταθερή βάση. Εάν υπάρχουν διαθέσιμοι, εμβυσματώνετε τους συνδέσμους των εξαρτημάτων.

Δημιουργείτε ασφαλείς συνδέσεις σύρματος γης.

Οδηγίες μονταρίσματος βλέπε γνήσιο εγχειρίδιο.

Σε περίπτωση αμφιβολιών απευθυνθείτε οπωσδήποτε στον αντιπρόσωπό σας!

4.2.2.1. Ορθή συσκευή Video, διαθέσιμοι τύποι παράδοσης:

- α) με πλήρη συναρμολόγηση και / ή
- β) με ξεχωριστά συσκευασμένο εξάρτημα κεφαλής (με ή χωρίς φωτισμό) και / ή
- γ) με ξεχωριστά συσκευασμένη μονάδα χειρισμού

4.2.2.2. Καθιστή συσκευή Video, διαθέσιμοι τύποι παράδοσης:

- α-γ) όπως η ορθή συσκευή Video και / ή επιπλέον
- δ) με ξεχωριστά συσκευασμένη μονάδα καθίσματος

4.3. Θέση λειτουργίας

Εάν υπάρχουν διαθέσιμοι, ρυθμίζετε ακριβώς τη συσκευή με τους ρυθμιστικούς κοχλίες. Η συσκευή πρέπει να στέκεται σταθερά πάνω στο δάπεδο. Σε περίπτωση λείων δαπέδων, χρησιμοποιείτε πλαστικά καλύμματα κάτω από τα πόδια της συσκευής.

Ελέγχετε την άψογη εφαρμογή όλων των δομοστοιχείων και συνδέσεων. Ιδιαίτερα ελέγχετε με τη βοήθεια ειδικού ηλεκτρολόγου την άψογη εφαρμογή των συνδέσεων σύρματος γης όλων των εκτεθειμένων μεταλλικών τμημάτων!

Κλείνετε τον γενικό διακόπτη. Βάζετε το ρευματολήπτη στην πρίζα αφού πρώτα έχετε τηρήσει όλες τις ανωτέρω αναφερόμενες οδηγίες.

Ανοίγετε τον γενικό διακόπτη. Εάν διαπιστωθεί ασυνήθιστος θόρυβος, καπνός ή παράξενη μυρωδιά μετά το άνοιγμα του διακόπτη, βγάζετε αμέσως το ρευματοδότη από την πρίζα και ζητάτε τη συμβουλή ειδικού ηλεκτρολόγου. Σε περίπτωση αμφιβολιών απευθυνθείτε οπωσδήποτε στον αντιπρόσωπό σας!



ΠΡΟΣΟΧΗ !! Κίνδυνος πυρκαγιάς
Μην λειτουργείτε σε καμία περίπτωση τη χαλασμένη συσκευή.

4.4. Ρυθμίσεις

Τα προγράμματα και τις ενδεχόμενες ρυθμίσεις του μοντέλου τις βρίσκετε στο συνημμένο γνήσιο εγχειρίδιο λειτουργίας.



ΠΡΟΣΟΧΗ !! Κίνδυνος ηλεκτροπληξίας
Τηρείτε οπωσδήποτε τις υποδείξεις ασφαλείας στο κεφάλαιο 2.

Σε περίπτωση αμφιβολιών απευθυνθείτε οπωσδήποτε στον αντιπρόσωπό σας!

5. Ελεγχος, συντήρηση και φροντίδα

5.1. Γενικές οδηγίες



ΠΡΟΣΟΧΗ!!

Κίνδυνος ηλεκτροπληξίας

Τηρείτε οπωσδήποτε τις υποδείξεις ασφαλείας στο κεφάλαιο 2.

Ελέγχετε τακτικά την κατάσταση του καλωδίου. Σε περίπτωση χαλασμένου καλωδίου ή ρευματολήπτη, διακόπτεται αμέσως τη λειτουργία της συσκευής και την επισκευάζετε με ειδικό ηλεκτρολόγο.

Ελέγχετε οπωσδήποτε την ύπαρξη και το ευανάγνωστο των προειδοποιητικών υποδείξεων, και αν είναι απαραίτητο κάνετε αντικατάστασή τους (βλέπε κεφάλαιο 8).

5.2. Συντήρηση

Η συσκευή αυτή καθ' αυτή δεν χρειάζεται συντήρηση.

5.3. Καθάρισμα πλαισίου και εξωτερικής οθόνης

1. Διακόπτετε τη λειτουργία της συσκευής και βγάξετε το ρευματολήπτη από την πρίζα!
2. Καθαρίζετε το πλαίσιο και την εξωτερική οθόνη με μαλακό, υγρό (όχι πολύ βρεγμένο πανί) και ελαφρύ απορρυπαντικό (μην χρησιμοποιείτε διαλυτικά, οξέα ή απορρυπαντικά τριψίματος).

6. Σέρβις

6.1. Γενικές οδηγίες



ΠΡΟΣΟΧΗ !!

Κίνδυνος ηλεκτροπληξίας

Τηρείτε οπωσδήποτε τις υποδείξεις ασφαλείας στο κεφάλαιο 2.

Σε περίπτωση χαλασμένου καλωδίου ή ρευματολήπτη, διακόπτεται αμέσως τη λειτουργία της συσκευής και την επισκευάζετε μόνο με ειδικό ηλεκτρολόγο. Υποδείξεις ασφαλείας βλέπε γνήσιο εγχειρίδιο λειτουργίας.

Σε περίπτωση αμφιβολιών απευθυνθείτε οπωσδήποτε στον αντιπρόσωπό σας!

6.2. Αντικατάσταση χαλασμένων σωμάτων φωτισμού

1. Διακόπτετε τη λειτουργία της συσκευής και βγάξετε το ρευματολήπτη από την πρίζα!
2. Προσοχή, το σώμα φωτισμού μπορεί να καίει!
3. Κάνετε αντικατάσταση των σωμάτων φωτισμού μόνο με προδιαγραμμένα ανταλλακτικά. Οδηγίες σέρβις βλέπε γνήσιο εγχειρίδιο λειτουργίας.

7. Θέση εκτός λειτουργίας

7.1. Γενικές οδηγίες



ΠΡΟΣΟΧΗ!!

Κίνδυνος ηλεκτροπληξίας

Τηρείτε οπωσδήποτε τις υποδείξεις ασφαλείας στο κεφάλαιο 2.

7.2. Αποσυναρμολόγηση

Βγάξετε το ρευματολήπτη από την πρίζα. Αποσυναρμολογείτε όλα τα περιγραφόμενα στο κεφάλαιο 4.2 εξαρτήματα στη αντίθετη σειρά. Το εξάρτημα κεφαλής πρέπει να το κρατάνε τουλάχιστον δύο βοηθοί κατά την αποσυναρμολόγηση.

7.3. Μετατόπιση

Κάνετε τη μεταφορά και επαναλειτουργήστε τη συσκευή όπως περιγράφεται στο κεφάλαιο

4.

7.4. Απομάκρυνση

Η απομάκρυνση της συσκευής γίνεται μόνο από εξουσιοδοτημένη εταιρία.

8. Προειδοποιητικές υποδείξεις

Οι προειδοποιητικές υποδείξεις, σε κείμενο ή σε εικόνα, ως αυτοκόλλητες ετικέτες ή σφραγίδες, ή στη μορφή αυτών των οδηγιών λειτουργίας, παλιώνουν με το πέρασμα του χρόνου. Ο εκμεταλλευτής της συσκευής είναι υπεύθυνος για την ύπαρξη και το ευανάγνωστο των προειδοποιητικών υποδείξεων.

Πρέπει να γίνεται αμέσως αντικατάσταση χαλασμένων ή ανύπαρκτων προειδοποιητικών υποδείξεων. Σε περίπτωση ανάγκης απευθυνθείτε στον αντιπρόσωπό σας.

Οι οδηγίες λειτουργίας πρέπει να φυλάσσονται οπωσδήποτε σε ασφαλές μέρος για να μπορούν να χρησιμοποιηθούν αργότερα!

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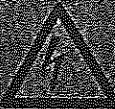
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1. BEFORE USING THIS PRODUCT

To ensure the safe usage of the product, be sure to read the following before using the product. The following instructions are intended for the use of QUALIFIED SERVICE PERSONNEL ONLY. After carefully reading and sufficiently understanding the instructions should any activity be carried out on the product. Only qualified service personnel should carry out maintenance on the product.

Terms such as **WARNING**, **CAUTION**, and **IMPORTANT!** are used where an explanation is given which requires special attention (depending on the potential risk). SEGA is not responsible for injury or damage caused by use in a manner contrary to the instructions stated in this document. In order to prevent accidents, warning stickers and printed instructions are applied in the places where a potentially hazardous situation relating to the product could arise. Be sure to comply with these warnings.



WARNING

Indicates that mishandling the product by disregarding this warning will cause a potentially hazardous situation which can result in death or serious injury.



CAUTION

Indicates that mishandling the product by disregarding this caution will cause a potentially hazardous situation which can result in personal injury and/or material damage.



IMPORTANT!

This is cautionary information which should be complied with when handling the product. Indicates that mishandling the product by disregarding this will cause a potentially hazardous situation which may not result in personal injury but could damage the product.

Be sure to turn off the power and disconnect from the mains supply before working on the machine.

Ensure that the correct fuses (if fitted) is fitted to the machine.

Details of the correct fusing of the machine are enclosed in the Service Manual.

Ensure that only qualified Service Engineers perform any maintenance work on the machine.

Specification changes, removal of equipment, conversion and/or addition, not designated by SEGA are not permitted and will invalidate this product's CE conformity.

The parts of the product also include any warning labels or safety covers for personal protection etc. A potential hazard will be created if the machine is operated while any parts have been removed. Should any doors, lids or protective covers be damaged or lost, do not operate the product. SEGA is not liable in any whatsoever for any injury and/or damage caused by specification changes not designated by SEGA.

Before installing the product, check for the Electrical Specification Sticker. SEGA products have a sticker on which the electrical specifications are detailed. Ensure that the product is compatible with the power supply voltage and frequency requirements of the location in which the machine is to be installed.

Install and operate the machine only in places where appropriate lighting is available, allowing warning stickers to be clearly read.

To ensure maximum safety for both customers and operators, stickers and printed instructions describing potentially hazardous situations are applied to places where accidents could occur. Ensure that where the product is operated has sufficient lighting to allow any warnings to be read. If any sticker or printed warning is removed or defaced, do not operate the machine until it has been replaced by an identical item.

When handling the monitor, be very careful. (Applies only to product with monitor.)

Some of the monitor (TV) parts are subject to high tension voltage. Even after turning off the power some components are still occasionally subject to high tension voltage. Monitor repair and replacement should be performed by qualified service engineers only.

In cases where commercially available monitors and printers are used only the contents relating to this product are stated in this manual. Some commercially available equipment has functions and reactions not stated in this manual. Read this manual in conjunction with the specific manual of such equipment.

Descriptions contained herein may be subject to change without prior notification.

The contents described herein are fully prepared with the care. However, should any question arise or errors be found please contact SEGA.

1.1. INSPECTIONS IMMEDIATELY AFTER TRANSPORTING THE PRODUCT TO THE LOCATION



IMPORTANT

Inspection should only be carried out by QUALIFIED SERVICE PERSONNEL.

Normally, at the time of shipment, SEGA products are in a state to allowing usage immediately after transporting to the location. Nevertheless, an irregular situation may arise during transportation preventing this. Before turning on the power, check the following points to ensure that the product has been transported safely.

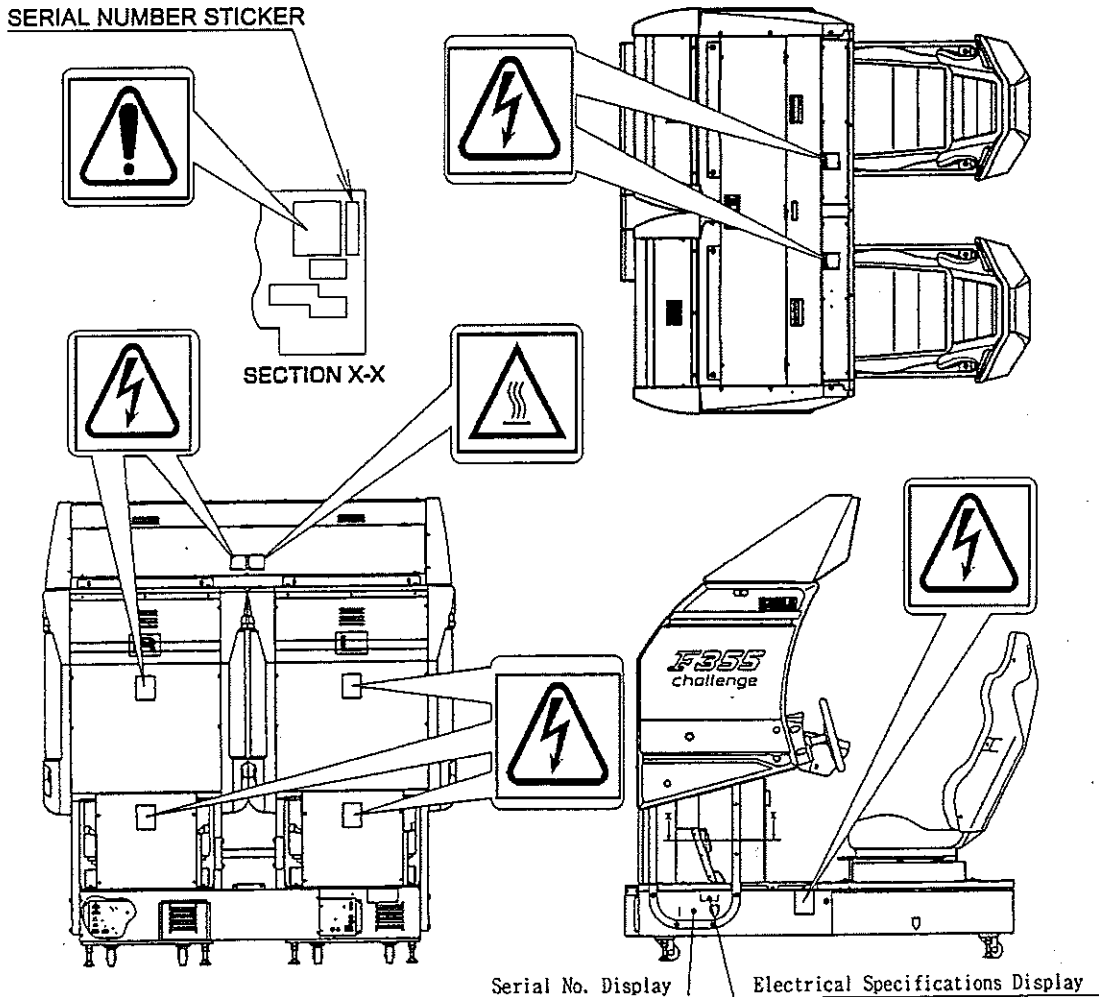
- Are there any dented parts or defects (cuts, etc.) on the external surfaces of the product?
- Are castors and leg adjusters present and undamaged?
- Do the power supply voltage and frequency requirements meet with the local supply?
- Are all wiring connectors correctly and securely connected? Unless connected in the correct direction connector connections cannot be made successfully. Do not insert connectors forcibly.
- Are all IC's or each IC BD firmly inserted?
- Does the power cord have any cuts or dents?
- Do fuses meet the specified rating?
- Are such units such as monitors, control equipment, IC BD, etc. firmly secured?
- Are all earth wires connected?
- Are all accessories available?
- Can all doors and lids be opened with the accessory keys and/or tools?

CONCERNING THE STICKER DISPLAY

SEGA product has stickers describing the product manufacture number (Serial Number) and electrical specification. If you require service assistance you will require the Serial Number. Identical machines may have different parts fitted internally. Only by quoting the Serial Number will the correct parts be identified.

CONCERNING WARNING STICKERS

SEGA product has warning displays on stickers, labels or printed instructions adhered/attached to or incorporated in the places where hazardous situations can arise. The warning displays are intended for the accident prevention of customers and service personnel.



SPECIFICATIONS		
Installation Space (cm):	164 x 170	
Height (cm):	187	
Weight (kg):	510	
Power consumption (max):	Rated Voltage (V.AC):	230 ±10%
	Rated Current (A):	3.5
Operating Temperature Range	5-40°C	

Note: Descriptions in this manual are subject to change without prior notice.

2. INTRODUCTION TO THIS SERVICE MANUAL

SEGA ENTERPRISES LTD., supported by its experience in electronic high technology of VLSI's, microprocessors etc. and with a wealth of experience, have for more than 30 years been supplying various innovative and popular games to the world market. This Service Manual is intended to provide detailed descriptions together with all the necessary information covering the general operation of electronic assemblies, electromechanicals, servicing controls, spare parts, etc. as regards **F355 CHALLENGE TWIN**, a new SEGA product. This manual is intended for those who have knowledge of electricity and technical expertise especially in IC's, CRT's, microprocessors etc.. 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 touch the interior systems. Should such a situation arise contact the nearest branch listed below or our head office.

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SEGA SPAIN

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Spain
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3. INSTALLATION AND SERVICE INSTRUCTIONS



IMPORTANT!

- Installation and commissioning should only be carried out by QUALIFIED SERVICE PERSONNEL.

3.1. HANDLING AND INSTALLATION PRECAUTIONS

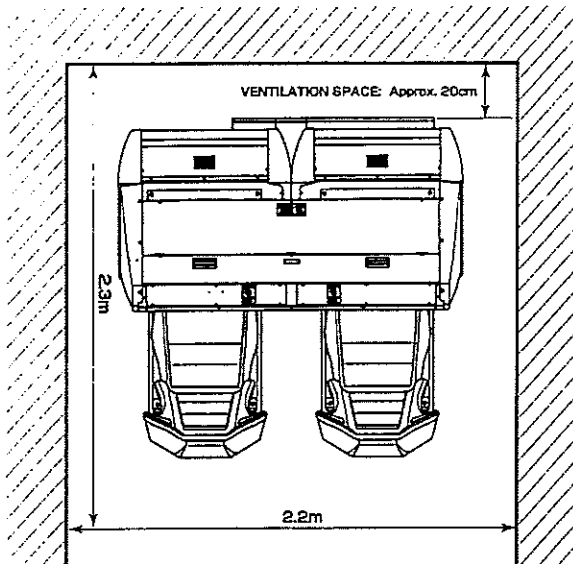
When installing or inspecting the machine, be very careful of the following points and pay attention to ensure that the player can enjoy the game safely.

The game must NOT be installed under the following conditions:

- Outside, the game is designed for indoor use only.
- In areas directly exposed to sunlight, high humidity, dust, excessive heat or extreme cold.
- In locations that would present an obstacle in the case of an emergency i.e. near fire equipment or emergency exits.
- On unstable surfaces or surfaces subject to vibration.
- Where liquids, other than routine cleaning, may come into contact with the game.

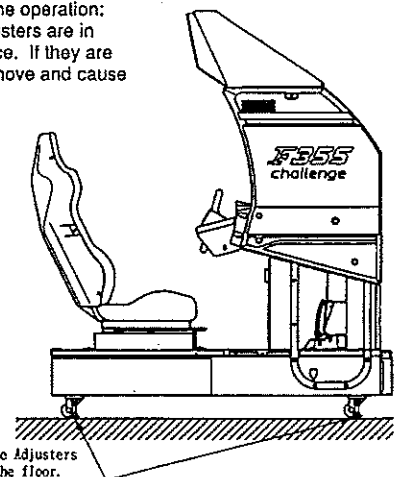
Important:

- This machine should only be installed by Qualified Service Personnel.
- Be sure to switch the supply power OFF and remove the mains supply plug from the machine before any work is carried out on the machine.
- Do not attempt to repair the PCB's (Printed Circuit Boards) yourself. This will void the warranty. The PCB's contain static sensitive devices that could be damaged.
- Always return a faulty part to your distributor with adequate packaging and protection.
- When removing the plug from the mains always grasp the plug not the cable.
- Do not use a fuse that does not meet the specified rating.
- Make sure all connections are secure before applying power.



In order to avoid accidents, check the following before starting the operation:

- Check if all of the adjusters are in contact with the surface. If they are not, the Cabinet can move and cause an accident.



IMPORTANT!

- Ensure that the mains lead is not damaged. If the mains lead is damaged in any way there could be a danger of electric shock or a fire hazard.
- Ensure that the power supply is fitted with circuit protection. Using the power supply without circuit protection is a fire hazard.

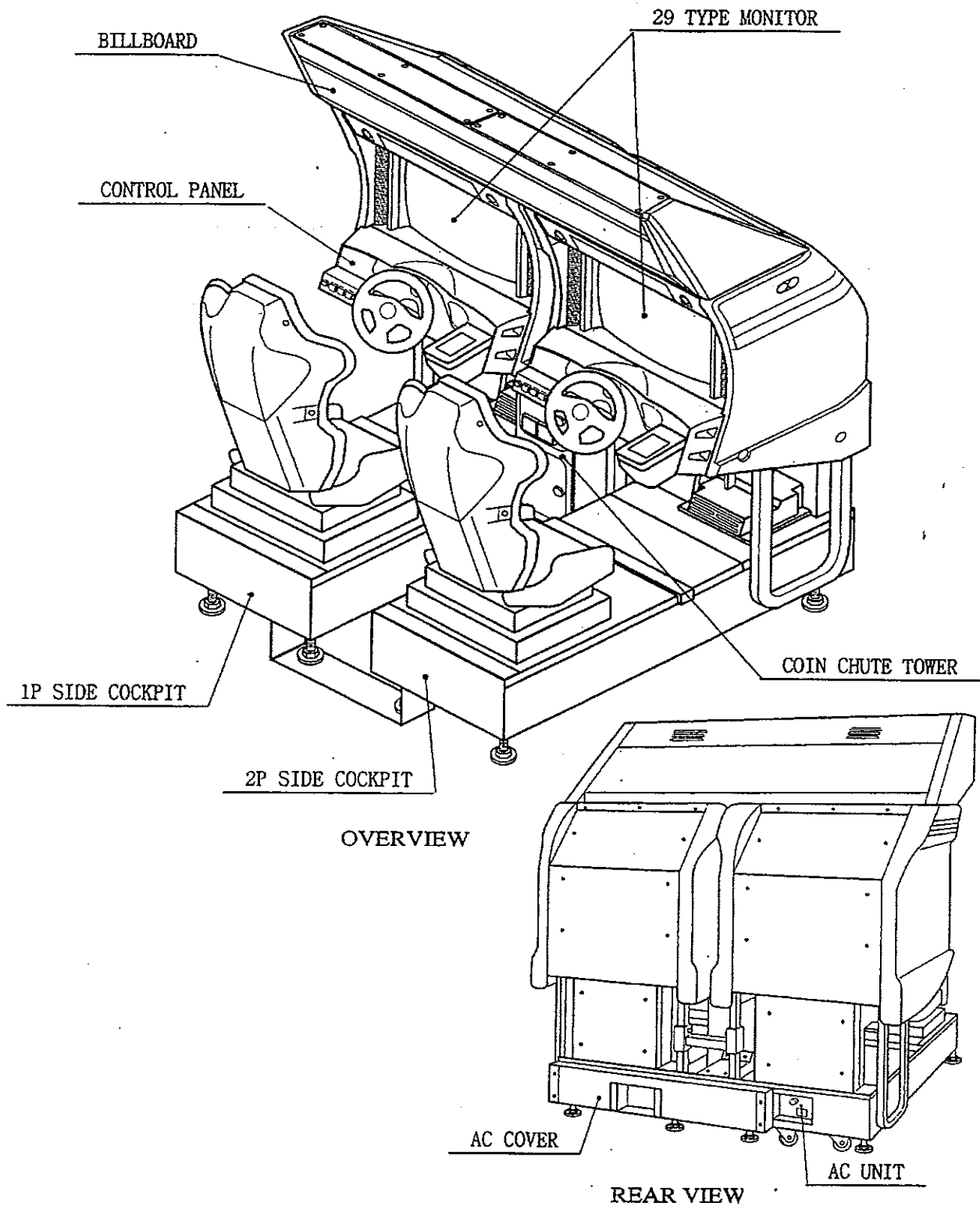
3.2. COIN HANDLING

As standard Sega machines are fitted with a C220 coin mechanism and door, however, as a service to our customers Sega machines can be supplied with no coin mechanism or door allowing the customer to fit a coin handling option from the approved list. Fit only the coin handling arrangements detailed below and follow the instructions provided in section 3.5.5. Failure to fit the coin handling options detailed or failure to follow the installation instructions will render the machine, under the CE marking directive, void.

Approved coin handling options:

- Coin controls C220
- Generic mechanical
- Mars (MS111B1 and ME115)

3.3. NAME OF PARTS

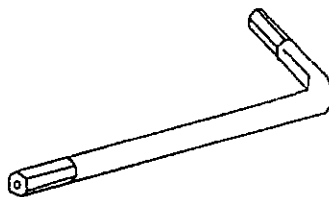


	Width (cm)	Length (cm)	Height (cm)	Weight (kg)
COCKPIT	82	164.5	152	228
COIN CHUTE TOWER	30.5	51.5	570	15
BILLBOARD	160.9	61.7	35.4	36
When Assembled	163.2	170	186.4	507 approx

3.4. ACCESSORIES

The machine is supplied with an installation kit. Please ensure the following parts are supplied:

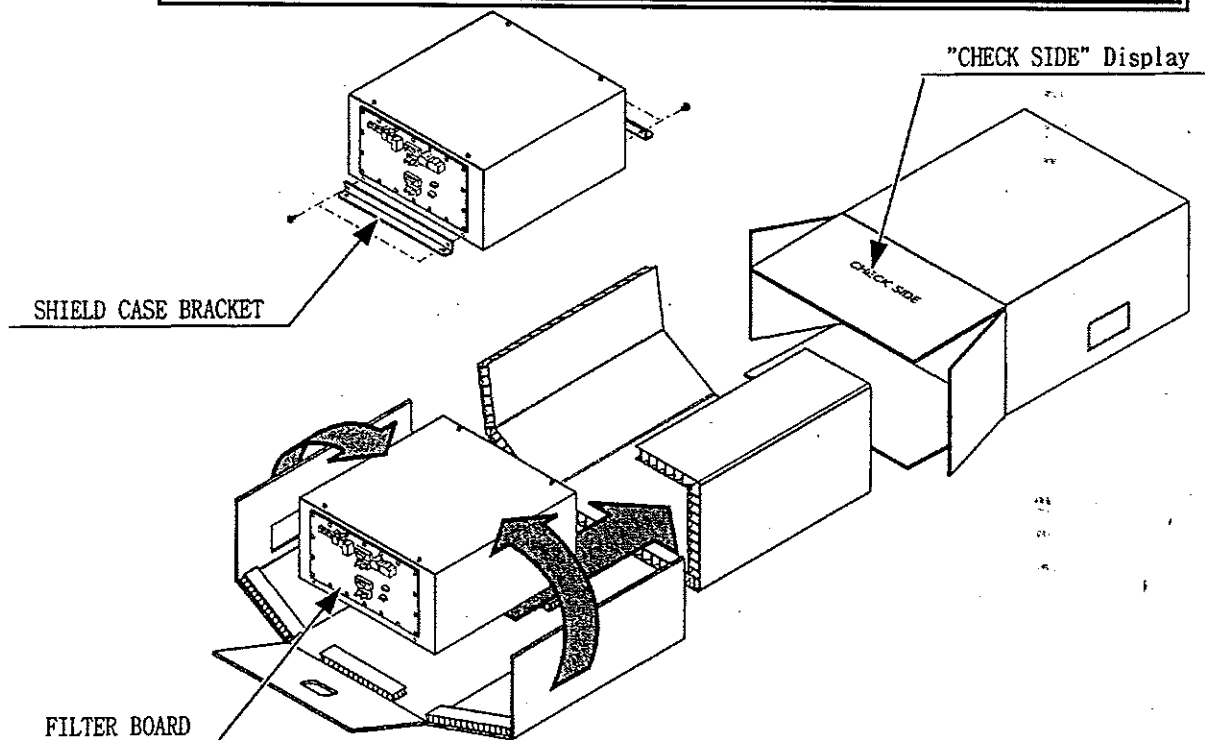
Indent	Part No.	Description	Component Ref	Qty
1	FRI-0200UK	ASSY BILLBOARD		1
2	FRI-0300UK	ASSY COINCHUTE TOWER		1
3	SPG-0500UK	ASSY WIRE COVER SPG TWIN		1
4	DYN-0013	JOINT PIPE		1
6	DYN-0006XUK	AC COVER B		1
7	SRT-0018UK	AC COVER C		1
8	DYN-0019UK	AC COVER D		1
9	RAL-XXXX-14UK	TIE BRACKET RALLY		1
10	PK0225	CARTON INST KIT FRI TWIN		1
11	422-0788UK	SUB INSTR SH FRI TWIN MULTI		2
13	422-787UK	PLAY INSTR SH FRI TWIN MULTI		2
14	SPG-0008	BILLBOARD HOLDER		1
17	421-11210	STICKER CAR No. OPTION FRI TWIN		1
201	030-000825-SB	M8X25 BLT W/S BNP	(4)-4,(14)-4	12
203	030-000820-S	M8X20 BLT W/S PAS	(2)-4	4
204	000-P00408-WB	M4X8 MSCR POSI PAN W/FS BNP	(3)-5,(6)-4,(7)-2,(8)-4	15
205	060-F00800-OB	M8 WSHR FORM A FLT BNP	(4)-4	4
206	050-F00400	M4 NUT FLG	COINCHUTE-1	1
207	FX0258	M8 WSHR 22OD FLT BZP	(2)-4,(14)-8	12
403	540-0006-01	WRENCH M4 TMP PRF		1
404	540-0007-01	WRENCH M5 TMP PRF		1
405	540-0009-01	WRENCH M8 TMP PRF		1
406	220-5484	VOL CONT B-5K OHM		1
407	509-5636	SW MICRO TYPE SS-5GL2T	SPARE	2
410	OS1019	SELF SEAL BAG 9X12.3/4		1
411	420-6373-01UK	SERVICE MANUAL DUT TWIN		1
412	420-5481-24	SERVICE MANUAL NANA0 USA		1
413	SAE-CE/026	CERTIFICATE CE DUT TWIN		1



Item 540-0006-01,540-0007-01, 540-0009-01 - Tamper-proof TORX wrench.

STOP
IMPORTANT!

- When returning the GAME BOARD for repair or replacement, be sure to package the entire ASSY SHIELD CASE in the original card transit box - THERE ARE NO USER-SERVICEABLE PARTS INSIDE.
- Failure to return the GAME BOARD in this manner may invalidate the warranty.



Wrap the ASSY SHIELD CASE with the packaging material and put it in the original transit box as shown. Putting it upside down or packing otherwise in the manner not shown can damage the GAME BOARD and other parts.

3.5. ASSEMBLY INSTRUCTIONS



WARNING!



IMPORTANT!

- Perform the assembly by following the procedure herein stated. Failure to comply with the instructions, for example, inserting the plug into an outlet at a stage not mentioned in this manual can cause an electric shock
- Assembling should be performed as per this manual. Since this is a complex machine, erroneous assembling can cause damage to the machine, or malfunction to occur.
- Do not attempt to complete this work alone, a minimum of 2 people are required.
- Assembly should only be carried out by **QUALIFIED SERVICE PERSONNEL**.

When carrying out the assembly work, follow the procedure in the following 7 item sequence

STEP 1 ASSEMBLING THE COCKPIT

STEP 2 SECURING IN PLACE (LEG ADJUSTER ADJUSTMENT)

STEP 3 BILLBOARD INSTALLATION

STEP 4 INSTALLING THE AC COVERS (WIRE COVERS)

STEP 5 COIN HANDLING INSTALLATION

STEP 6 CONNECTION TO POWER SUPPLY

STEP 7 ASSEMBLY CHECK

Note that the parts contained within the installation kit are required for the assembly work.



CAUTION!

- Fit all fixings loosely first as detailed in step 1, then position all components before finally tightening fixings at step 6.

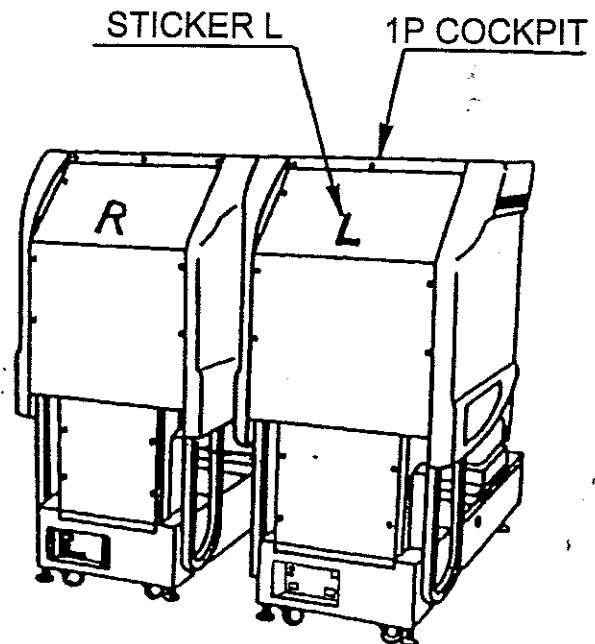
3.5.1. ASSEMBLING THE COCKPIT



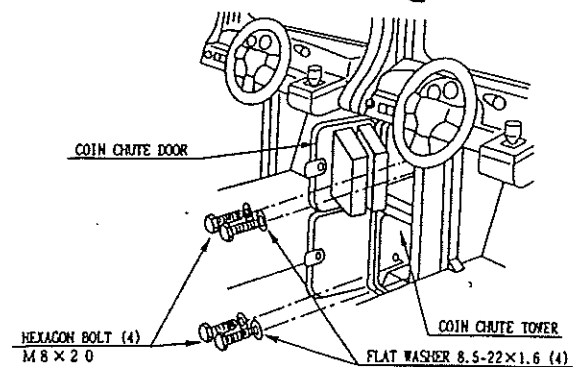
IMPORTANT!

- This operation should only be carried out by **QUALIFIED SERVICE PERSONNEL**.

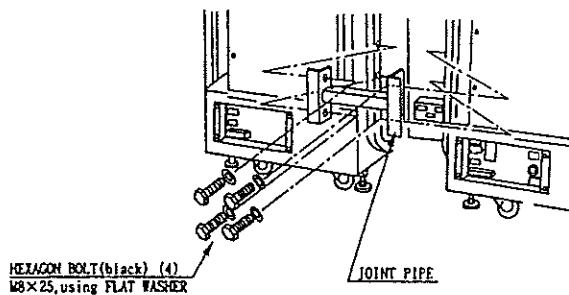
1. Place the two cockpits side by side. Position the 1P cabinet, which has the IEC inlet at the left hand side when viewed facing the back of the monitor. **STICKER L** is attached to the back of the 1P cabinet and **STICKER R** on the back of the 2P cabinet



2. Install the coin chute tower in between both cabinets. Open the coin chute door and the cash door and secure with the 4 hexagon bolts from inside the doors. At this time, make sure the bolts are only loosely fitted.



3. Install the joint pipe on the rear-side of both cabinets by securing with 4 hexagon bolts, at this time loosely.



3.5.2. SECURING IN PLACE (LEG ADJUSTER ADJUSTMENT)



CAUTION!



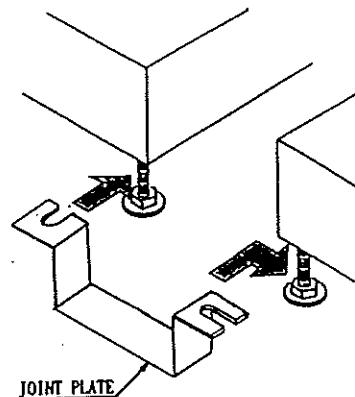
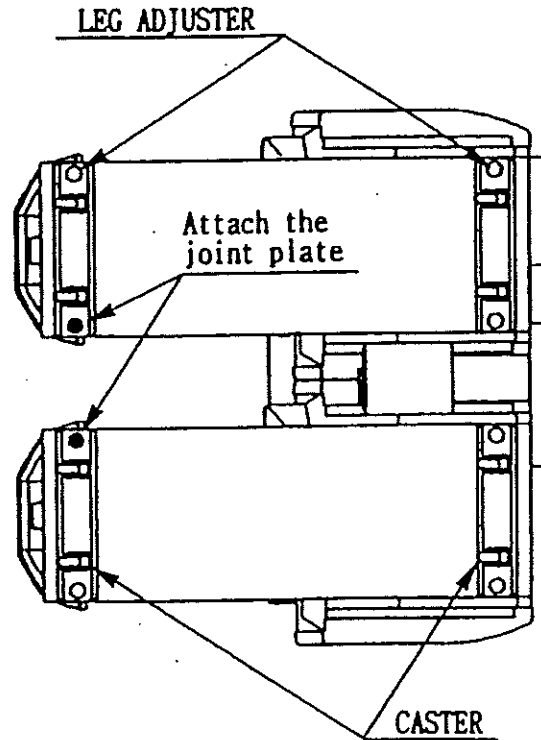
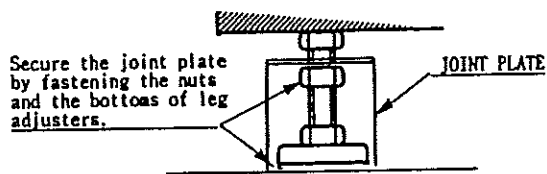
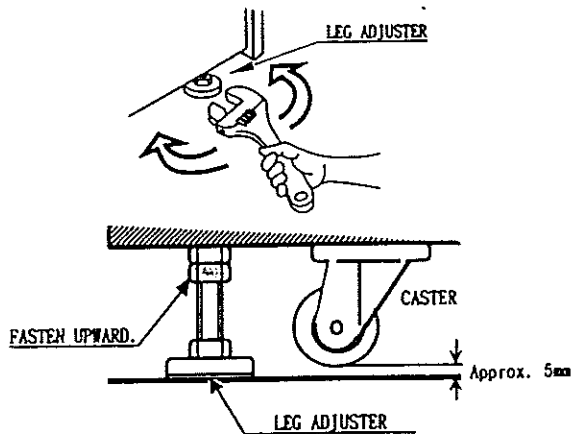
IMPORTANT!

- Make sure all of the leg adjusters are in contact with the floor. If they are not the machine may move and cause injury. This operation requires 2 people.

- This operation should only be carried out by QUALIFIED SERVICE PERSONNEL.

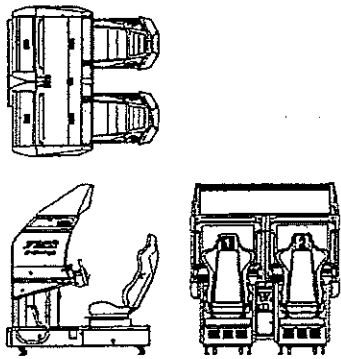
This machine has eight castors and eight leg adjusters. When the installation position is decided. Unscrew the leg adjusters so that they raise each caster a minimum of 5mm from the floor. Make sure the machine is level.

1. Move the machine to the installation position. When installing against or close to a wall, be sure to allow an adequate space to allow the player access to the machine.
2. Make the leg adjusters contact the floor. Adjust using a spanner as shown below so that a minimum of 5mm exists between the casters and the floor. Make additional adjustment so that the machine is level.
3. Slide the joint plate onto the shafts of the indicated leg adjusters. Tighten the lock nut on all 8 leg adjusters. This will secure the joint plate.

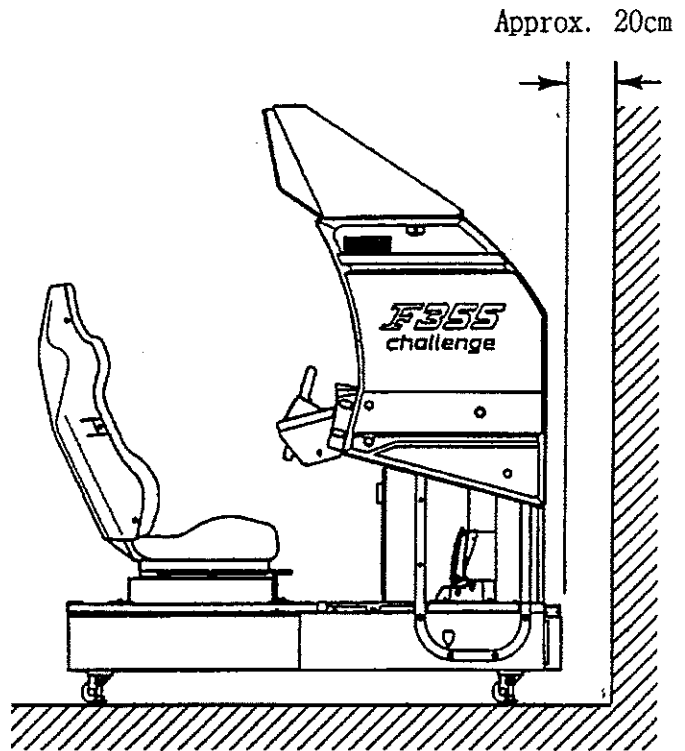


After securing the leg adjuster bolts, fully tighten all bolts temporarily attached in STEP 1 above.

Ensure adequate ventilation is maintained as detailed below



Refer to this Fig. (Scale:1/100)
for the layout of the place of
installation.



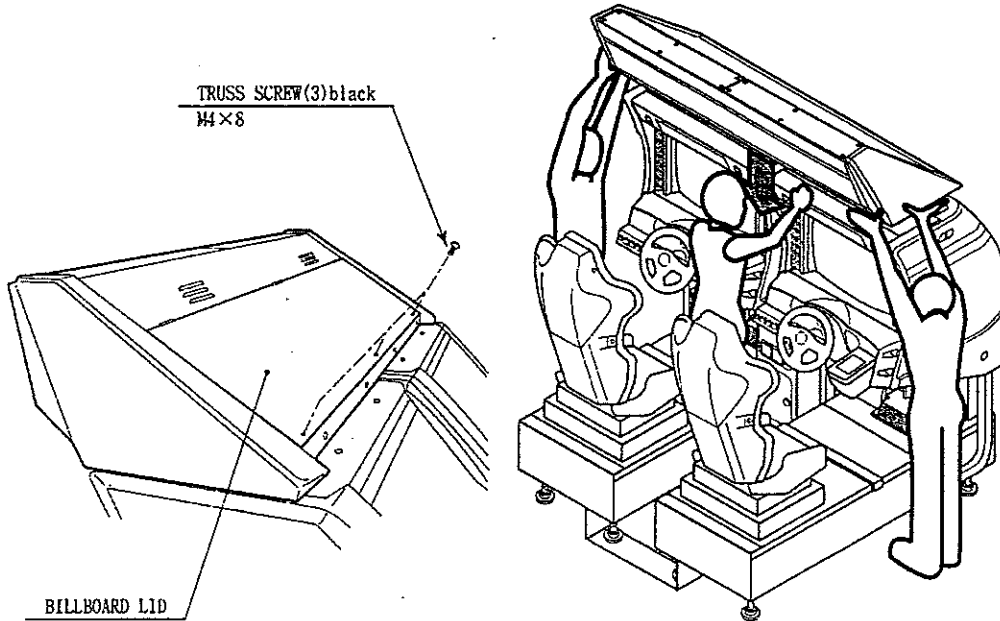
3.5.3. BILLBOARD INSTALLATION



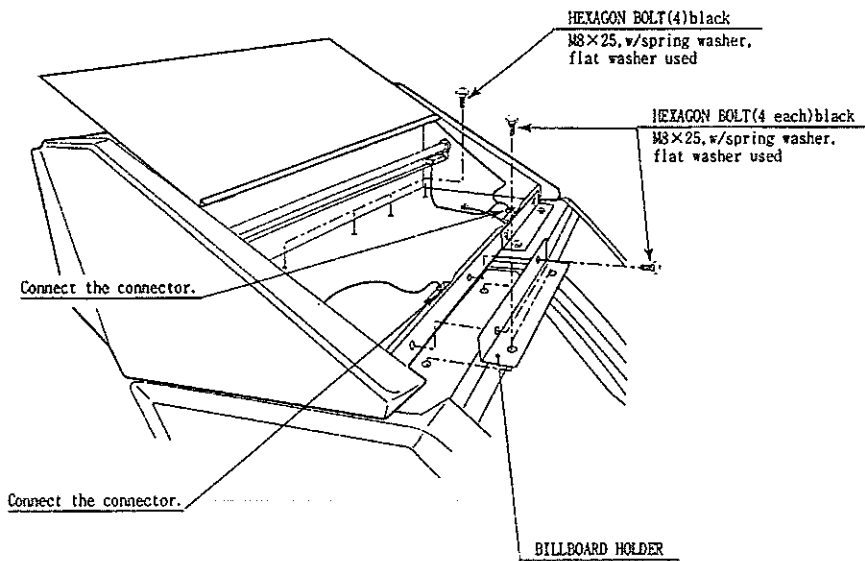
IMPORTANT!

- One person alone cannot perform the installation of the billboard assembly. Seek assistance before attempting this operation
- This operation should only be carried out by QUALIFIED SERVICE PERSONNEL.

1 Install the billboard base over the two cockpits.



2. Mount the billboard by fitting it onto the billboard base.
3. Install the billboard holders using 2 hexagon bolts each to secure them to the cabinets.
4. Connect the wire connectors from the billboard box to the connectors on the cabinets and install the connector covers using two screws for each.



3.5.4. INSTALLING THE AC COVERS (WIRE COVERS)



CAUTION!

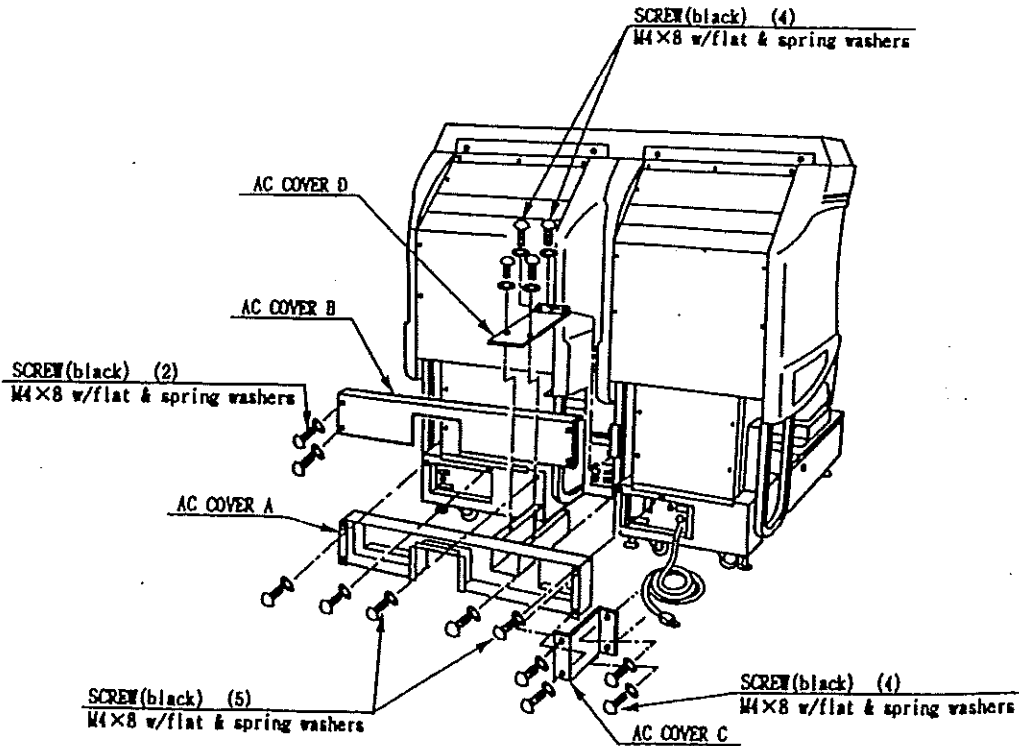


IMPORTANT!

- Be sure that the machine is not connected to the mains supply before attempting this operation
- This operation should only be carried out by QUALIFIED SERVICE PERSONNEL.

The AC Wire Covers is used for protecting the interconnecting wiring and the fibre optic cables. When carrying out this operation be very careful so as not to trap any wire between the covers. Pay attention when handling the fibre optic cables as excessive bending may cause damage.

1. Attach AC Cover A to the rear of the cabinet using 5 screws.
2. Make all the wiring connections between the two cockpits and the Coin Chute Tower. The wiring connectors are colour coded and cannot be fitted into the wrong size connectors. Do not force any connectors together.
3. Connect the earth wires between the two AC Brkts, the AC Covers and the Coin Chute Tower.
4. Insert the fibre optic cables into the fibre optic connectors. Ensure that the "RX" connection on the 1P cockpit is connected to the "TX" connector on the 2P cockpit. The other fibre optic connects the "TX" connector of the 1P cockpit to the "RX" connector of the 2P cockpit.
5. Insert AC Cover B into AC Cover A from above and secure using 2 screws. Be sure not to trap any cables.
6. Secure AC Cover C and AC Cover D using 4 screws each.



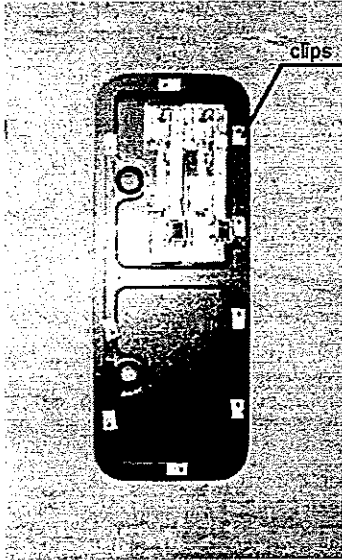
3.5.5. COIN HANDLING INSTALLATION.



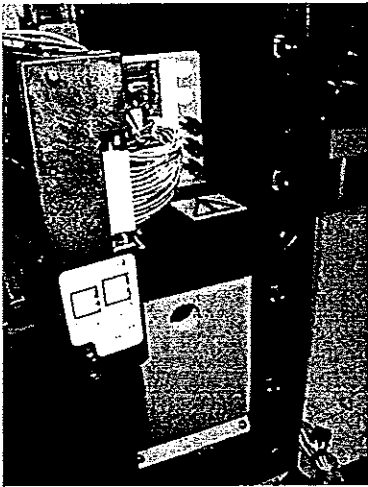
IMPORTANT!

- This operation should only be carried out by **QUALIFIED SERVICE PERSONNEL**.

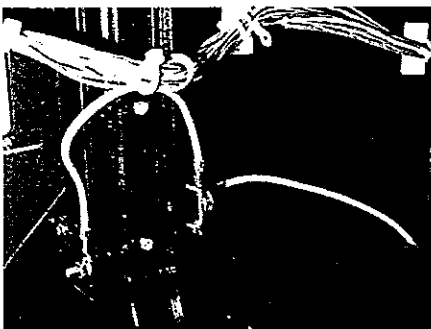
When fitting the coin mechanism to the door please refer to the specific manufacturers installation instructions for that coin mechanism. To fit the door to the machine follow the procedure below.



- Loosen all of the bolts on the frame which secure the clips.
- Turn all clips in towards the door.



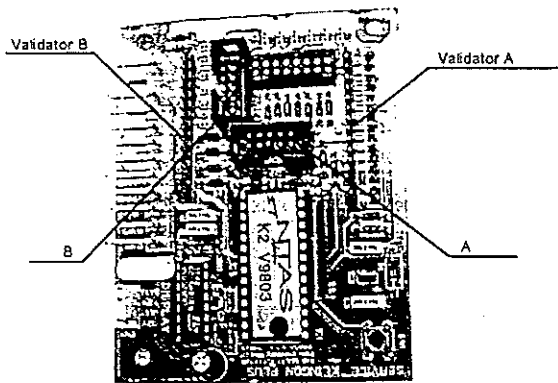
- Position the door into the aperture in the machine.
- Turn the clips around so that they will hold the door in the machine.
- Tighten all of the bolts.



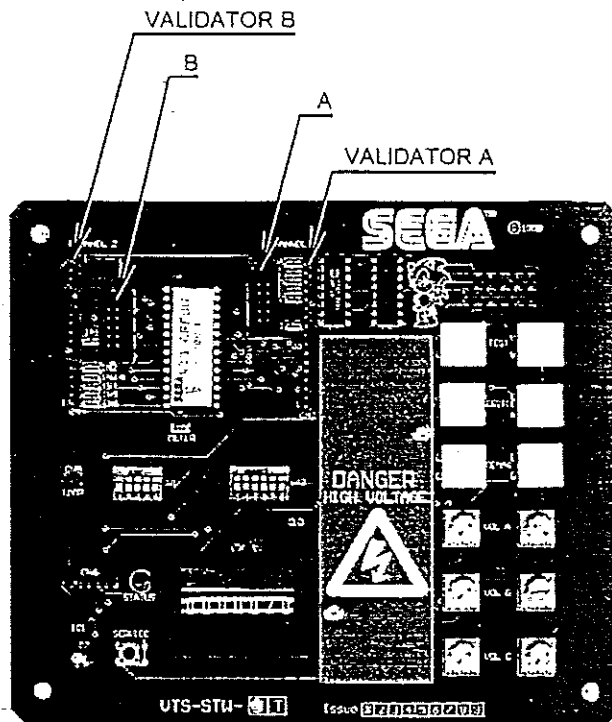
- Ensure that the door is earthed to the frame and the frame is earthed to either the VTS bracket or the coin chute tower.

3.5.5.1.WIRING CONNECTIONS.

COIN MECH	LOOM	INSTALLATION
C220B	LM1006	<ul style="list-style-type: none"> • Attach the lamp holder to the bracket on the coin return button. • Attach one 15way connector to the C220 coin mech. • Attach the other 15 way connector to Validator A on the credit board. • Attach the 2way mate and lok plug to the 2 way Mate and lok cap provided
GENERIC MECHANICALS	LM1008	<ul style="list-style-type: none"> • Fit the two lamp holders behind the coin return buttons. • Attach the blue cable and orange cable to one mechs microswitch switch. • Attach the blue/green cable and orange/green cable to the other mechs microswitch. • Attach the 2 way mate and lok plug to the 2 way mate and lok cap provided. • Attach one 15 way connector to Validator A and the other to Validator B on the credit board
MARS MS111B1 MARS ME115	LM1007	<ul style="list-style-type: none"> • Fit the lamp holder to the bracket behind the coin return button. • Fit one of the 13 way connectors to the coin mech. • Fit the other 13 way connector to Validator A on the credit board. Note the 13 way connector is keyed and this key must coincide with the key on the credit board.



Klingon Plus credit board



VTS credit board assembly

3.5.6. CONNECTION TO THE POWER SUPPLY



WARNING!



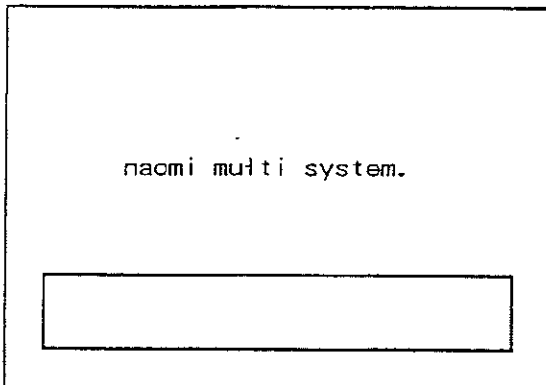
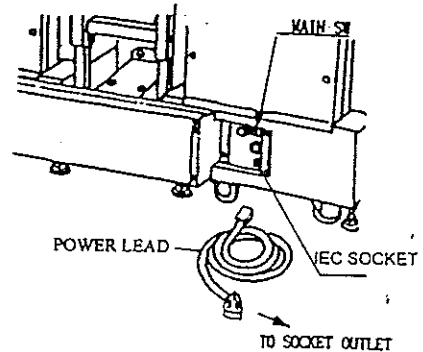
IMPORTANT!

• This operation may only be carried out once the machine has been completely assembled.

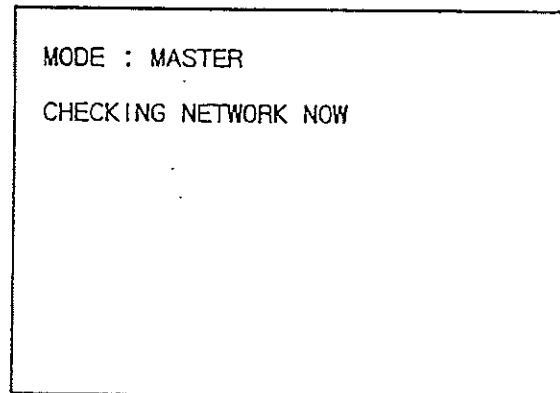
• This operation should only be carried out by **QUALIFIED SERVICE PERSONNEL**.

The AC Unit is located on the rear of the 1P cockpit. Using the power lead supplied connect this to the mains socket at the wall.

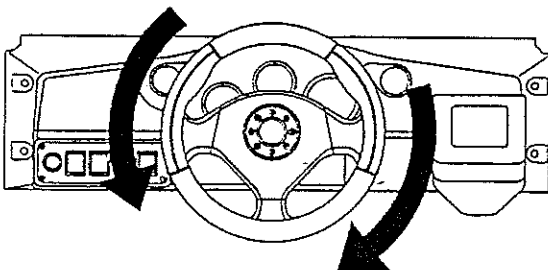
1. Turn the mains switch on.
2. Turn the switch on the AC bracket on
3. The machine will start up and go through an initialisation procedure where the steering wheel turns left and right.
4. **DO NOT TOUCH THE MACHINE DURING INITIALISATION.** If the wheel is touched during this time, it could upset the motor settings and affect the feedback performance during gameplay.
5. The gameboard will now be checked for approximately one minute.
6. The network check then starts. After this the attract mode will appear. If after 30 seconds or so, the network check has not finished, check the IR communication connections.



GAME BOARD SYSTEM CHECK SCREEN



NETWORK CHECK SCREEN



The steering wheel turns left/right automatically.

3.5.7. ASSEMBLY CHECK



IMPORTANT!

- This operation should only be carried out by **QUALIFIED SERVICE PERSONNEL.**

In the **TEST MODE** ensure that the assembly has been made correctly and the IC board is satisfactory.

In the **TEST MODE** perform the following test.

```

                RAM TEST

IC29 GOOD
IC35 GOOD
IC16 GOOD      IC18 GOOD
IC20 GOOD      IC22 GOOD
IC09 GOOD      IC10 GOOD
IC11 GOOD      IC12 GOOD

PRESS TEST BUTTON TO EXIT
```

Selecting the **MEMORY TEST** on the system test mode menu screen causes the on-board memory to be tested automatically. The game board is satisfactory if the display beside each IC No. shows **GOOD**

```

                ■ INPUT TEST ■

- SYSTEM SWITCH -
CHUTE #1 OFF      CHUTE #2 OFF
TEST OFF          B TEST OFF
SERVICE OFF      B SERVICE OFF

- GAME SWITCH -
START OFF         TC OFF
SC OFF           1BS OFF
ABS OFF

- WING SHIFT -
WING L ON        WING R OFF

- ANALOG DEVICE -
HANDLE 7B H      ACCEL 2E H
BRAKE 2F H

- OTHER DEVICE -
VISUAL MEMORY    UNCONNECTED

PRESS SERVICE + TEST BUTTON TO EXIT
```

Selecting **INPUT TEST** on the game test mode menu screen causes the screen, on which each switch and VR are tested, to be displayed.

Press each switch in turn. If the display beside each switch shows **ON** then the switch and wiring connections are satisfactory.

Check the display for VR values for the steering wheel, brake and accelerator. If the VR values are not satisfactory refer to section 3.7 . . .

```

                ■ OUTPUT TEST MENU ■

LAMP TEST
DRIVE BOARD TEST

-> EXIT TO SYSTEM TEST MODE

SELECT WITH SERVICE BUTTON
AND PRESS TEST BUTTON
```

In the **OUTPUT TEST** mode carry out lamp and motor tests to ensure that the lamps and motor are working correctly.

3.5.8. MOVING THE MACHINE

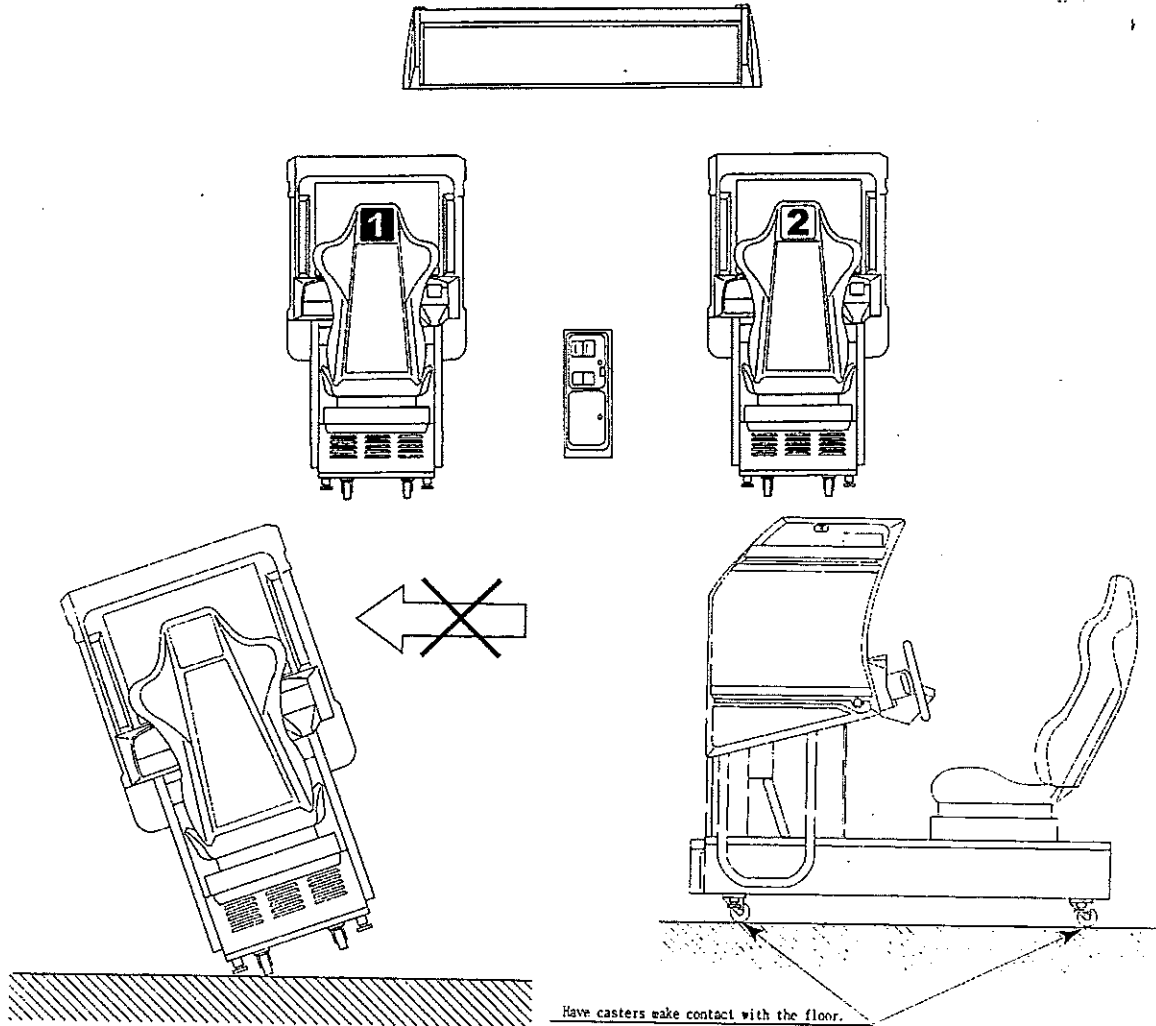


- When moving the machine, be sure to remove the plug from the power supply. Moving the machine with the plug inserted can cause the power cord to be damaged, resulting in a fire or electric shock.
- When moving the machine, retract the leg adjusters fully and ensure the casters make contact with the floor. During movement pay careful attention so that the casters or leg adjusters do not damage any other cabling laid on the floor. Such damage could result in a fire or electric shock.
-
- Don't push the cockpit cabinets from the side, as they may topple and cause damage.
- Don't put excessive pressure on the glass or plastic components as damage or personal injury may result if there is a breakage.



- This operation should only be carried out by QUALIFIED SERVICE PERSONNEL.

Break apart the cabinet if transporting up or down step level changes!



3.6. FUSES



WARNING!



IMPORTANT!

- Never touch places other than those specified. Touching places other than those specified can cause electric shock and short circuit. Disconnect the machine from the supply before attempting the replacement of any fuse.

- FUSES should only be replaced by QUALIFIED SERVICE PERSONNEL.

There are a number of fuses used on this machine to protect the user and the machine from damage. Only replace the fuse once you have remove the cause of its failure. Detailed below is a list of the fuses used, their location and if relevant P.C.B. reference:

PART NUMBER	LOCATION	TYPE & DETAILS	QTY (PER COCKPIT)
514-5036-6300	838-11856CE-02	6.3A GLASS TYPE T 250V	1
514-5078-6300	838-13578 F1	FUSE 32X6.35 HRC SB 10000mA	1
SEGA	838-12912-01 F1	15A HRC 250V 32mm UL	1
514-5078-5000	AC BRACKET	HRC 5A T 250V 20mm	1
514-5078-10000	IEC INLET	HRC 10A T 250V 20mm	1 PER TWIN
LITTLEFUSE 215004	400-5397-01 SW REGU F1	4A HRC 250V	1

There are also fuses located on the Monitor PCB. Refer to the relevant Monitor manual supplied to reference these fuses.

3.7. MAINTENANCE



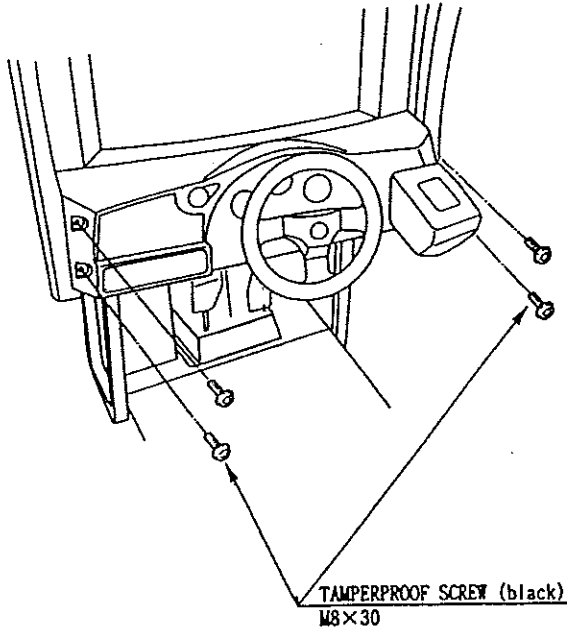
IMPORTANT!

- Maintenance must only be carried out by Qualified Service Personnel. Ensure that the mains power is switch OFF and disconnected before attempting any work.

3.7.1. HANDLE MECHA

In the TEST MODE, if the steering wheel V.R. variations are not within the allowable limit, the V.R. installation position requires adjustment or the V.R. needs replacement. Also be sure to apply grease every 3 months.

3.7.1.1. Removing the Handle Mecha



1. Turn the POWER switch OFF
2. Remove a total of 4 tamperproof screws from the Control Panel
3. Wiring connectors are connected inside the Control Panel. Carefully withdraw the control panel in a manner so as not to damage the wiring.
4. Disconnect the wiring connectors and earth harness.

3.7.1.2.Replacing and Adjusting The Handle Mecha's V.R.



CAUTION!



IMPORTANT!

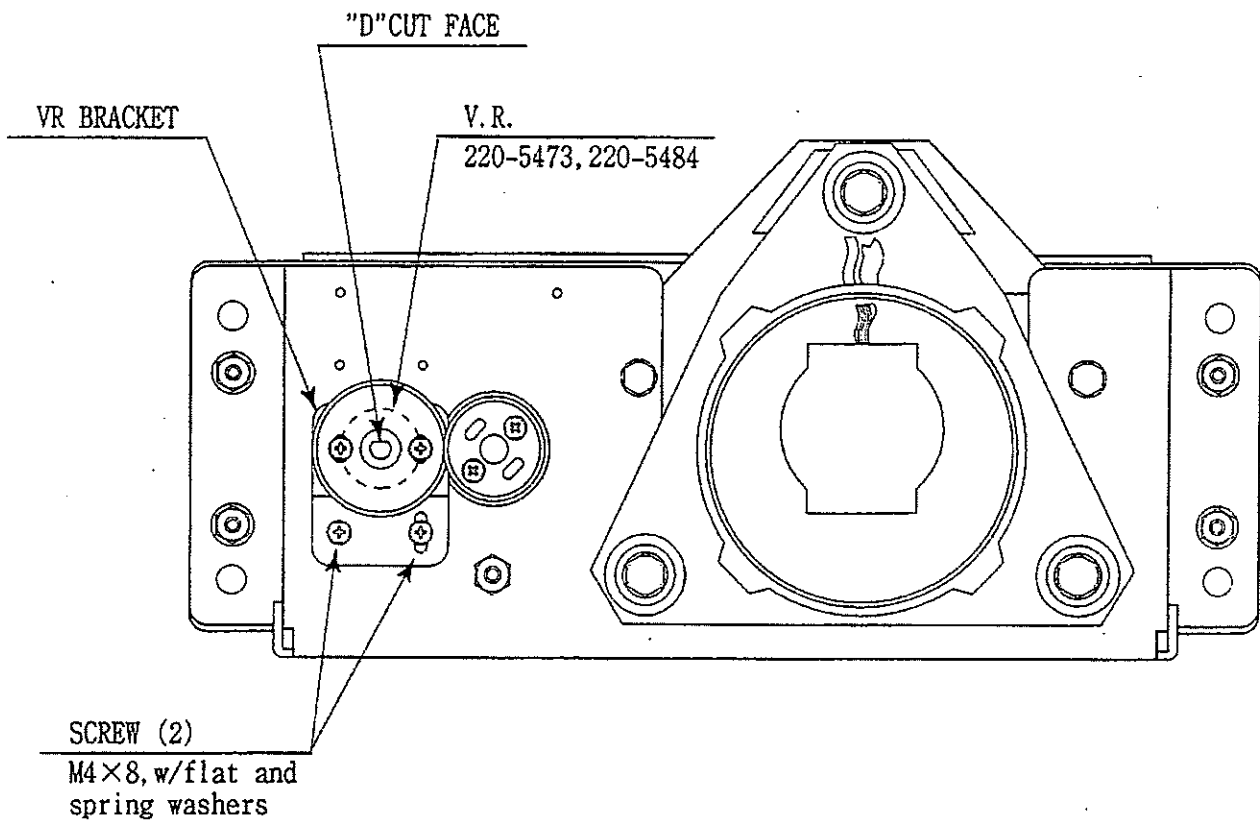
- Never touch places other than those specified. Touching places other than those specified can cause electric shock and short circuit.

- After the replacement or adjustment of the V.R. be sure to set the Centre of Steer in the DRIVE BOARD TEST.

3.7.1.3.Adjusting the V.R.

Remove the CONTROL PANEL as detailed above. Locate the V.R. on the rear surface of the HANDLE MECHA.

1. Using a screwdriver, loosen the 2 machine screws which secure the V.R. Bracket. Move the V.R. Bracket so as to disengage the gears.
2. Gently rotate the V.R. until its value is within the range of the centring position. Position the steering wheel in the centre position.
3. Mesh the gears together. Make sure that a correct amount of backlash is maintained between the gears.
4. If the V.R. value is still not correct make fine adjustments by loosening the 2 machine screws on the V.R. gear. Rotate the gear holder until the correct value is obtained.
5. The value should be adjusted such that with the steering wheel in the centre position the value read during INPUT TEST shall be $80H \pm 10H$.
6. Re-set the centre of steer as described in the game test mode (output test).



3.7.1.4.Replacing the V.R.

1. Remove the CONTROL PANEL as detailed above. Locate the V.R. on the rear surface of the HANDLE MECHA

2. Using a screwdriver, remove the 2 machine screws which secure the V.R. Bracket. Remove the V.R. Bracket so as to disengage the gears.
3. Loosen the hexagon drive grub screws in the collar and gently slide off the V.R.
4. Reassemble is the reverse procedure of steps 1 and 2 above.
5. When complete you must readjust the V.R. in accordance with the paragraph above.

3.7.1.5.Greasing

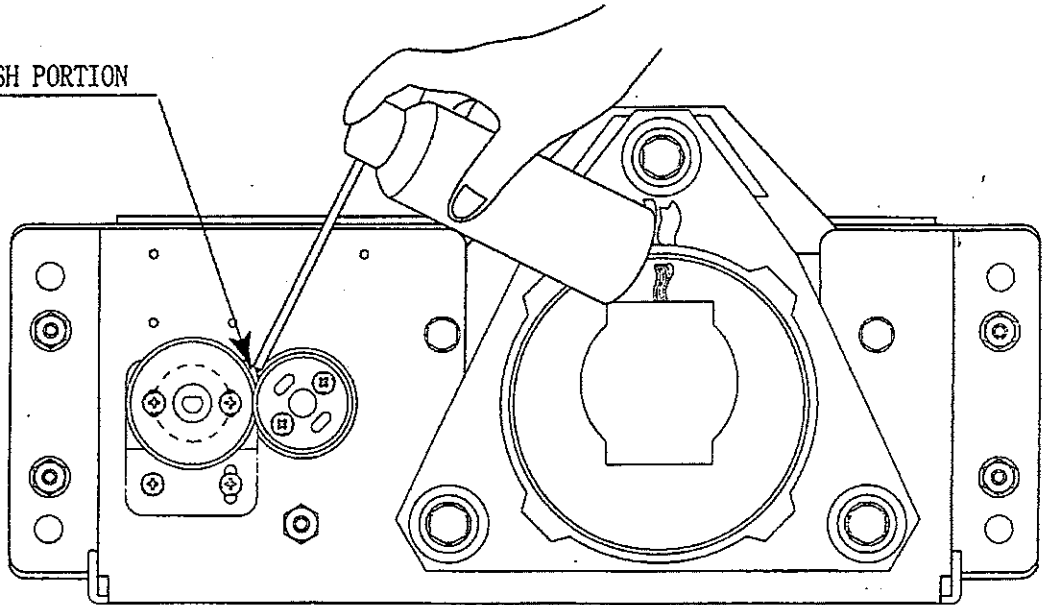


IMPORTANT!

- Be sure to use a good quality, synthetic lubricant. Using a mineral-based lubricant will cause damage to the plastic parts.
- Do not apply lubricant to parts other than those specified. Doing so may cause damage or deterioration of parts.

Apply lubricant to gear mesh portions once every 3 months.

VOLUME GEAR MESH PORTION



3.7.2. ACCELERATOR & BRAKE

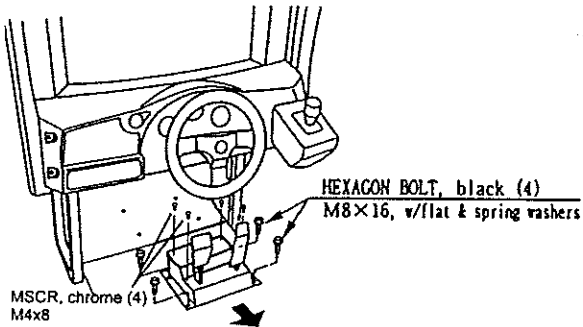


IMPORTANT!

- Maintenance must only be carried out by Qualified Service Personnel. Ensure that the mains power is switch OFF and disconnected before attempting any work.

In the TEST MODE, if the brake or accelerator V.R. variations are not within the allowable limit, the V.R. installation position requires adjustment or the V.R. needs replacement. Also be sure to apply grease to all moving parts every 3 months.

3.7.2.1. Removing the Accelerator & Brake.



1. Turn the POWER switch OFF
2. Remove a total of 4 screws securing the covers over the ACCELERATOR & BRAKE
3. Fine adjustment of the V.R. values is accomplished with just these covers removed.
4. Coarse adjustment requires the ACCELERATOR & BRAKE mounting bolts to be removed. If this is necessary, remove the bolts from the unit, but do not remove the unit from the machine. Take extreme care when operating the unit in this condition as damage to other components can occur.

3.7.2.2.Adjusting the V.R.



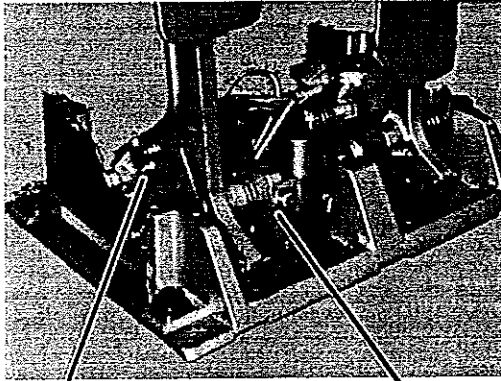
CAUTION!



IMPORTANT!

- Never touch places other than those specified. Touching places other than those specified can cause electric shock and short circuit.

- After the replacement or adjustment of the V.R. be sure to set the values in the INPUT TEST.



FINE ADJUST SCREW

COARSE ADJUST SCREWS

1. Remove the cover panels as detailed above.
2. Fine Adjustment - By using a screwdriver loosen the 2 machine screws which secure the V.R. arm. Move the V.R. arm to adjust the V.R. value within the relaxed range.
3. Coarse Adjustment - Remove the four hexagon bolts detailed above and remove the side covers of the Accelerator & Brake.
4. Loosen the two machine screws holding the V.R. rack
5. Move the V.R. rack away so as to disengage the V.R.
6. Gently rotate the V.R. until its value is within the range of the centring position.
7. Mesh the gears together. Make sure that a correct amount of backlash is maintained.
8. If the V.R. value is still not correct make fine adjustments as detailed above.

The required values are:

GAS PEDAL:	Under 30H	⇒	Over C0H
BRAKE PEDAL:	Under 30H (THE PEDAL RELEASED)	⇒	Over C0H (THE PEDAL PRESSED)

3.7.2.3.Replacing the V.R.

1. Loosen and withdraw the V.R. rack as detailed above.
2. Using a hexagon key loosen the two grub screws holding the V.R. gear onto the V.R.
3. Remove the V.R. gear
4. Using a spanner remove the nut holding the V.R. in position.
5. Gently remove the V.R. and its wire harness.
6. Refit is the reverse of removal.
7. When complete you must readjust the V.R. in accordance with the paragraph above.

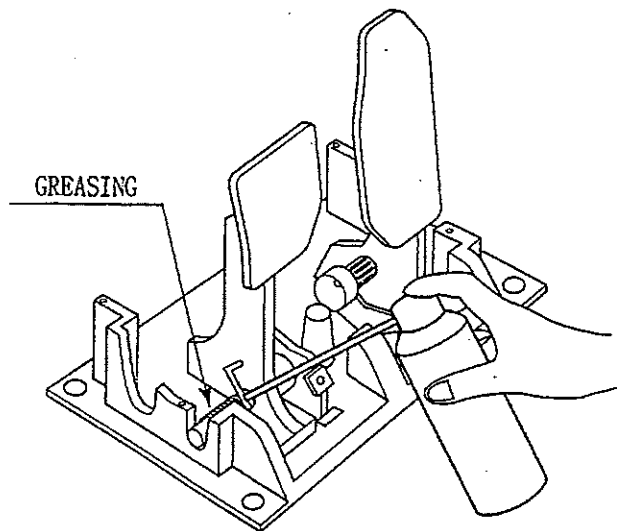
3.7.2.4.Greasing



IMPORTANT!

- Be sure to use a good quality, synthetic lubricant. Using a mineral-based lubricant will cause damage to the plastic parts.
- Do not apply lubricant to parts other than those specified. Doing so may cause damage or deterioration of parts.

Apply lubricant to gear mesh portions once every 3 months.



3.7.3. PADDLE SHIFT



IMPORTANT!

- Maintenance must only be carried out by Qualified Service Personnel. Ensure that the mains power is switch OFF and disconnected before attempting any work.

In the TEST MODE, if the PADDLE SHIFT switches cannot be input correctly, the switch will need to be replaced. Also be sure to apply grease to all moving parts every 3 months.

3.7.3.1. Replacing Paddle Shift Microswitches.



CAUTION!



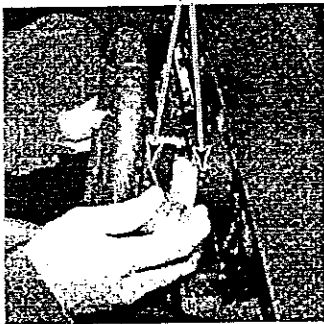
IMPORTANT!

- Never touch places other than those specified. Touching places other than those specified can cause electric shock and short circuit.
- After the replacement or adjustment of the microswitches check operation using the INPUT TEST.

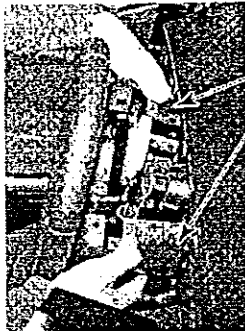
3.7.3.1.1. Replacing the Microswitches.

1. Turn the POWER switch OFF.

TRUSS SCREW '4 each'
M1 x 5



2. Remove the BOSS COVERS and retain the 4 truss-head screws.



BOSS COFF

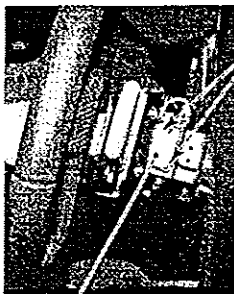
3. Disconnect the wiring to the microswitch.

4. Remove the microswitch and retain the screws.

5. Adjust the microswitch's actuating arm so that it is not depressed until the paddle is moved in that direction.

6. Refit is the reverse of removal.

7. Check the switch operation in the game test mode (input test).



S 2.5 x 2
M3 x 6

M1 x 5
TRUSS SCREW

3.8. REPLACEMENT OF FLUORESCENT LAMP AND OTHER LAMPS



WARNING!

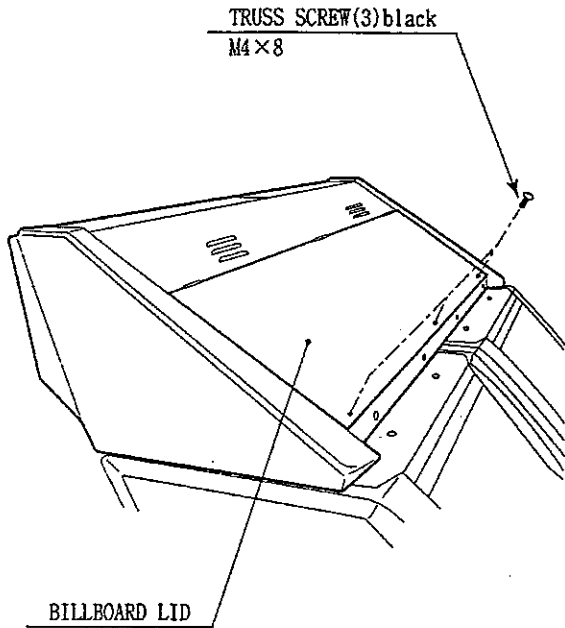


IMPORTANT!

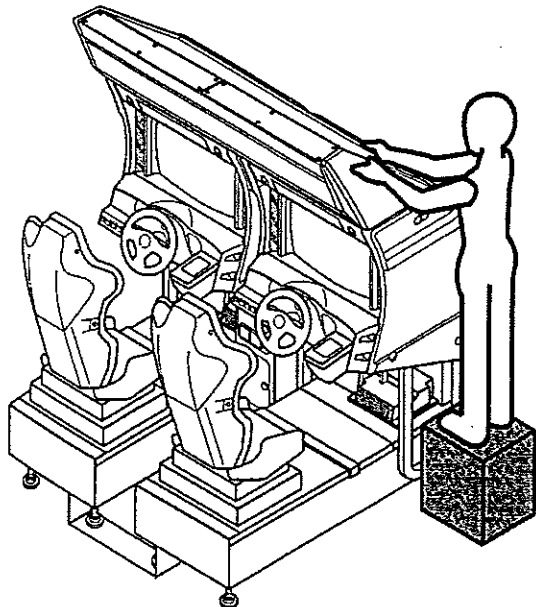
- Never touch places other than those specified. Touching places other than those specified can cause electric shock and short circuit. Disconnect the machine from the supply before attempting the replacement of any lamp.

- Lamps should only be replaced by QUALIFIED SERVICE PERSONNEL.

3.8.1. FLUORESCENT LAMP REPLACEMENT

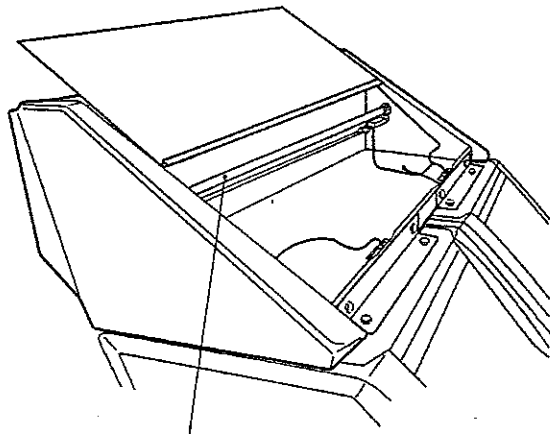


1. Turn the POWER switch OFF.
2. Take out the 3 screws and open the Billboard lid.
3. Remove the end caps from the fluorescent tube.
4. Pull the tube out of the clips with a twisting action.

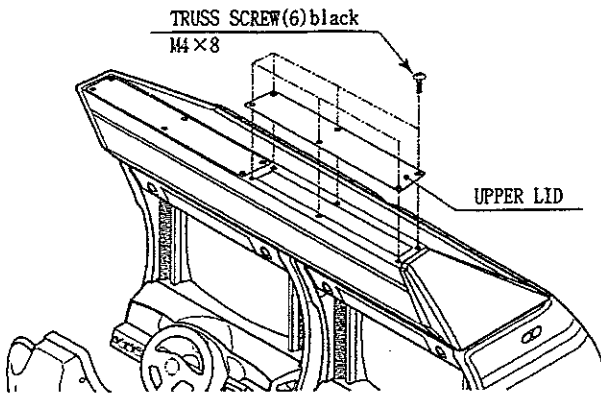


When performing work,
be sure to use a step.

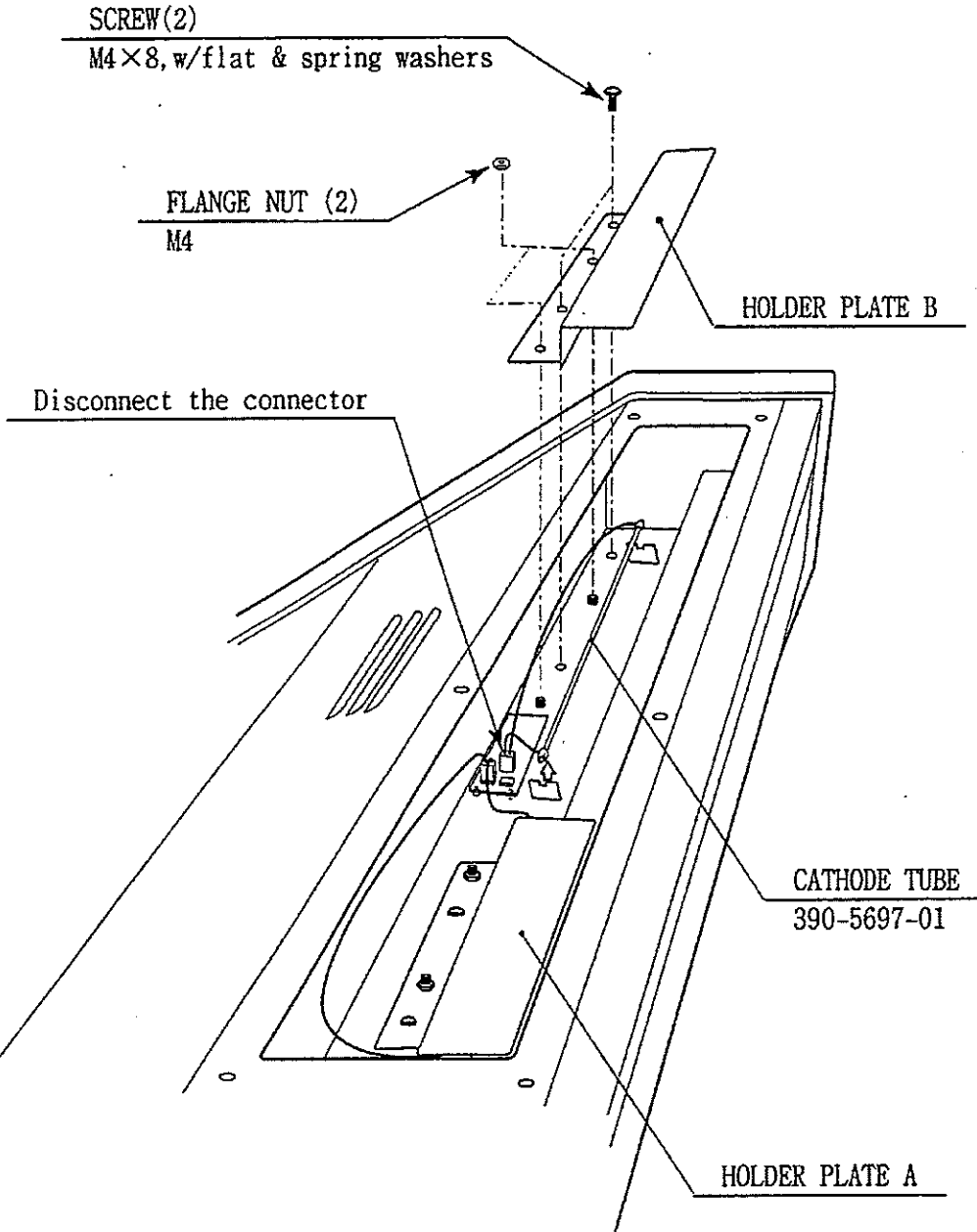
FLUORESCENT LAMP 40W



3.8.2. CATHODE LAMP REPLACEMENT



1. Remove the UPPER LID and retain the 6 truss head screws (per lid).
2. Remove HOLDER PLATE B and retain the 2 flange nuts & 2 screws.
3. Remove HOLDER PLATE A in the same manner.
4. This will expose the CATHODE TUBE. Disconnect the connector and withdraw the CATHODE TUBE.



3.9. TROUBLESHOOTING



IMPORTANT!

- These procedures should only be carried out by QUALIFIED SERVICE PERSONNEL.

If a problem occurs, first check the wiring connections.

PROBLEMS	CAUSE	COUNTERMEASURES
When the main switch is turned ON, the machine is not activated	The power is not ON.	Firmly insert the plug into the outlet.
	Incorrect power source/voltage.	Make sure that the power supply/voltage are correct.
	AC Unit CIRCUIT PROTECTION DEVICE (ie; fuse) was activated due to an instantaneous overcurrent.	First, remove the cause of overcurrent and reinstate the circuit protection device to its original status. Then identify the cause of the fault on the item which caused the overcurrent & fix.
The colour image on the screen is incorrect	Incorrect monitor adjustment.	Make appropriate adjustments. 5.1.3.4
The on-screen image of the monitor sways and/or shrinks	The power source and voltage are not correct.	Make sure that the power supply and voltage are correct.
Sound is not emitted	Sound volume adjustment is not correct.	Adjust the volume setting on the VTS bracket. 5.1.3.3
	Malfunctioning BD and Amp.	Perform Sound Test to check it. 5.1.3.3
	Connector connection is incorrect	Check connector connection from Base to Speaker
Operation of Accel. And Brake Pedals are not satisfactory	V.R. position deviated	Adjust V.R. value in the test mode. 3.7.2
	VR malfunctioning	Replace the V.R. 3.7.2
	ADJUST GEAR's engagement is not correct	Adjust the engagement of ADJUST GEAR. 3.7.2
PADDLE SHIFT doesn't operate satisfactorily	Switch malfunctioning	Replace the switch. 3.7.3
Steering Wheel reaction strength is incorrect. Deviation of Centre	Power ON check not performed correctly.	Turn off power and then turn it back on again. Complete the power on check
	VR position deviated..	Adjust V.R. value in the test mode. 3.7.1
	V.R. malfunctioning	Replace V.R. 3.7.1
Steering Wheel reaction strength is insufficient	Reaction Mecha's secular change	Change Drive Control BD DIP SW setting. 3.10.3
No Steering Wheel Reaction	Connector Connection is incorrect	Check connector connection from Base to Handle.
	The Motor Drive BD fuse is blown due to momentary overload	Replace the Motor Drive BD Fuse. 3.6
The fluorescent lamp does not light up	Fluorescent lamp needs replacement	Replace the fluorescent lamp. 3.8.1

	The connector is disconnected	Check connector connections in the billboard case. 3.5.3
The LEADER lamp does not light up	The Cathode tube needs replacement.	Replace the lamp. 3.8.2
	The connector is disconnected	Check connector connections in the billboard case. 3.5.3
Interactive play is not possible	Communication cable is disconnected	Connect the cable.
	Cable connections are not correct	Connect the cable correctly. 3.11
	Settings for communication play are not correct	Ensure that GAME ASSIGNMENTS settings are correct. 3.11

3.10. GAMEBOARD



WARNING!

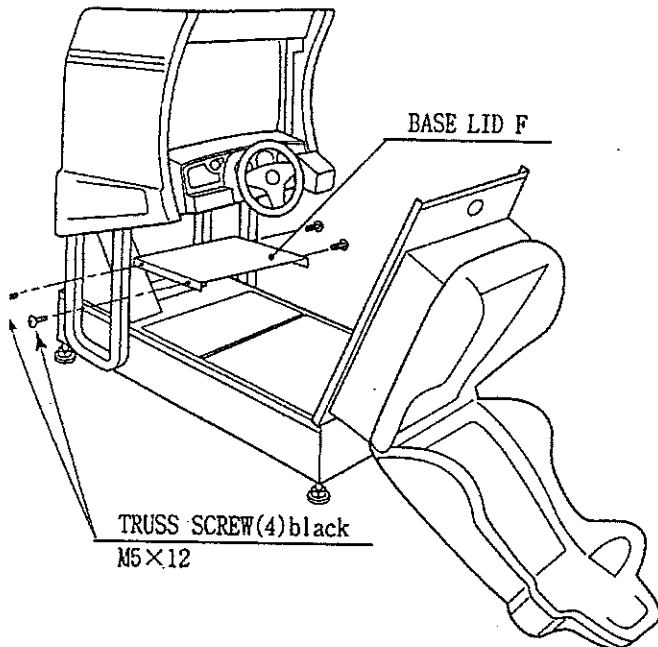
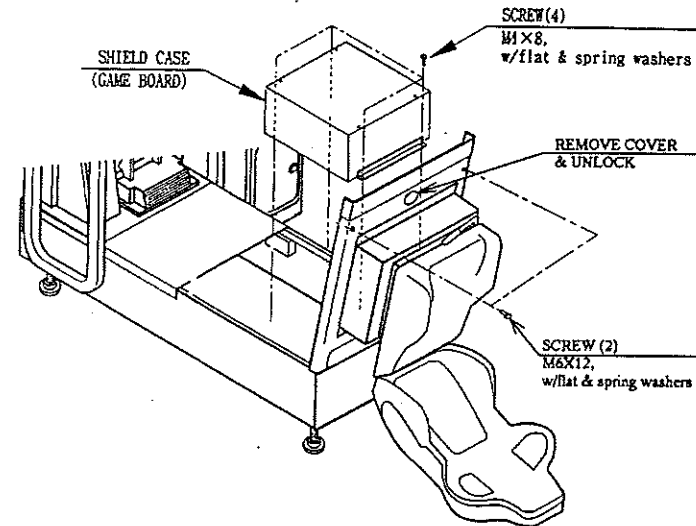


IMPORTANT!

- Turn off the mains power and remove the power cord before opening the machine.
- Contains static-sensitive devices – take precautions to avoid ESD damage.
- The GAME BOARD should not require any work to be carried out upon it. All settings and tests can be achieved without access to the GAME BOARD.
- All work to be carried out by QUALIFIED SERVICE PERSONNEL

3.10.1. REMOVING THE BOARD

To remove the IC BD or to change dip switch settings, take out the board using the following procedure.



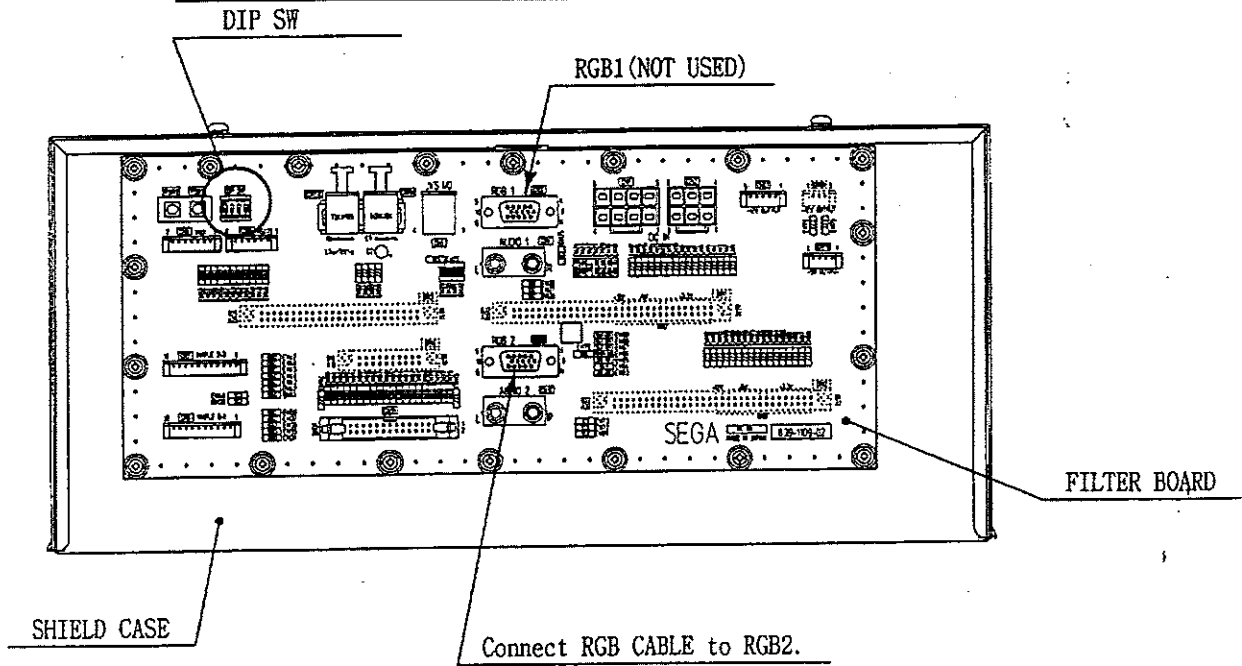
1. Turn the main switch OFF.
2. Unlock the base and remove the 2 M6 bolts.
3. Tip the seat carefully backwards as shown. Be careful not to damage the seat back when resting it on the floor. Use a cloth under the seat back to protect it on hard floors.
4. Disconnect the wiring connectors and remove the shield case wooden board completely (retain the M4 screws) & place on a clean, flat surface.
5. Disconnect all of the connections to the filter board.
6. Turn the assembly over and undo the M4 CSK screws to release the shield case assembly. Withdraw through the wooden board.
7. Take off the 4 screws to remove the case lid. The game board is contained in the shield case.
8. If there is a fault with the gameboard, return the whole assembly (without the L-shaped brackets) to SEGA using the packaging provided as described in section 3.4.
9. To see the ELEC BD remove a total of 4 screws from the front floor and remove the front floor.

3.10.2.FILTER BOARD

STOP

IMPORTANT!

- Be sure to check that the DIP SW is set as shown below. If they are not set as shown, operation of the game may be affected.
- All work to be carried out by QUALIFIED SERVICE PERSONNEL



3.10.2.1.DIP SW SETTING

Set all DIP SW positions on the FILTER BOARD to OFF:



3.10.3. DRIVE BOARD



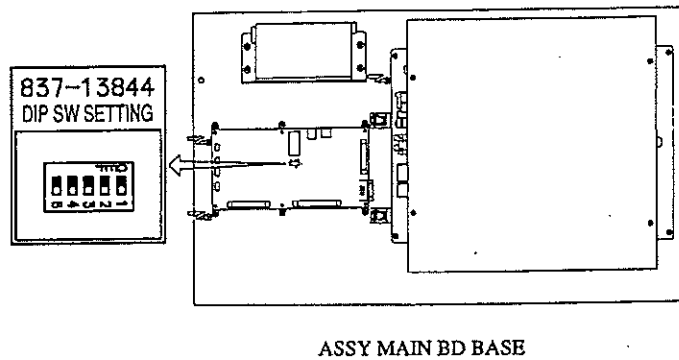
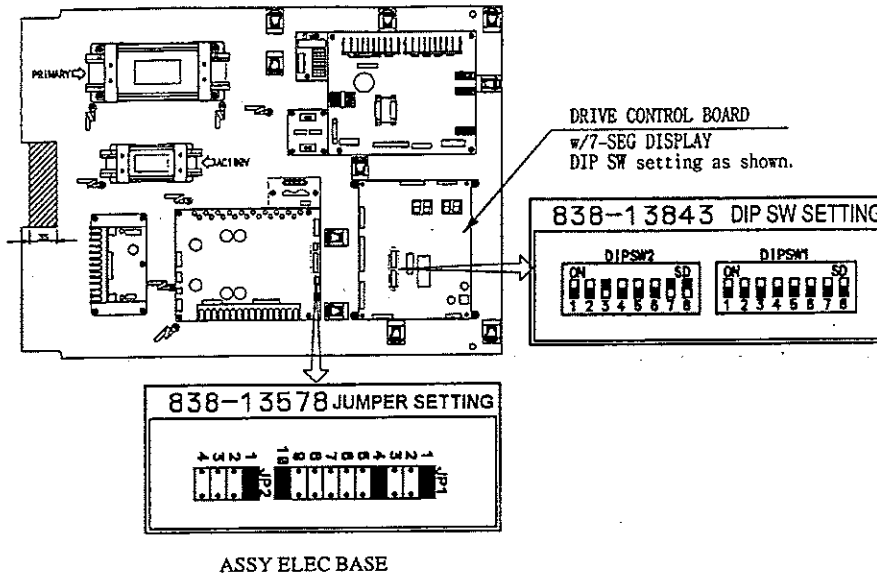
- Do not damage the wiring as this can cause short circuit or electric shock – there are potentially lethal voltages in this system.
- All work to be carried out by QUALIFIED SERVICE PERSONNEL

If an irregularity occurs in the DRIVE BOARD etc. the ERROR message is shown on the 7-SEG display on the DRIVE CONTROL BOARD. Take countermeasures in the manner corresponding to the ERROR message. Note that game play is still possible during DRIVE BOARD error but without steering reaction.

7-Seg display on Drive Bd	Error	Cause/Countermeasures
Errors shown on the DRIVE CONTROL BOARD during initialisation:		
Er 01	ROM error	Malfunctioning Drive bd.
Er 02	RAM error	Replace drive board.
Er 20	Initialisation setting irregularity of motor	Irregularity during initialisation setting movement. Finish initialisation setting movement by turning power off then on. Note that when ERROR is displayed, the malfunctioning relates to the Motor System.(Motor and Drive Bd which controls the Motor, wirings in between etc.)
Er 22	Steering wheels centring error	Malfunctioning during initial setting movement. Finish initialisation by turning power off then on. Note that when ERROR is displayed this relates to the Steering Wheel Volume system.
Errors shown on the drive control board during ADVERTISE mode:		
Er 23	Error of the encoder incorporated in the motor	Malfunctioning which occurs during operation. First turn the power off and after 10 minutes turn it back on. Note that when this error is displayed it refers to the Motor system.
Er 24	Overcurrent error	
Er 25	Overheat Overload	

If error is displayed on the screen, remove Back Lid B without turning power off to check the 7-seg display on the Drive Board. At this time if the power is turned off each of ER 23,24 and 25 which could have occurred during operation may not be displayed.

Check the DIP SW positions on the DRIVE CONTROL BOARD and I/O board on the MAIN BOARD BASE ASSEMBLY as shown below.



3.11. COMMUNICATION PLAY



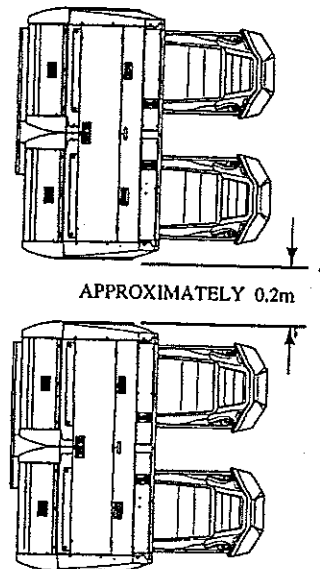
IMPORTANT!

- Linking machines should only be carried out by **QUALIFIED SERVICE PERSONNEL**.
- Do not bend the fibre optic cables excessively, as this may affect the communication performance.

For this game up, 4 machines can be connected to allow up to 16 players to play simultaneously.

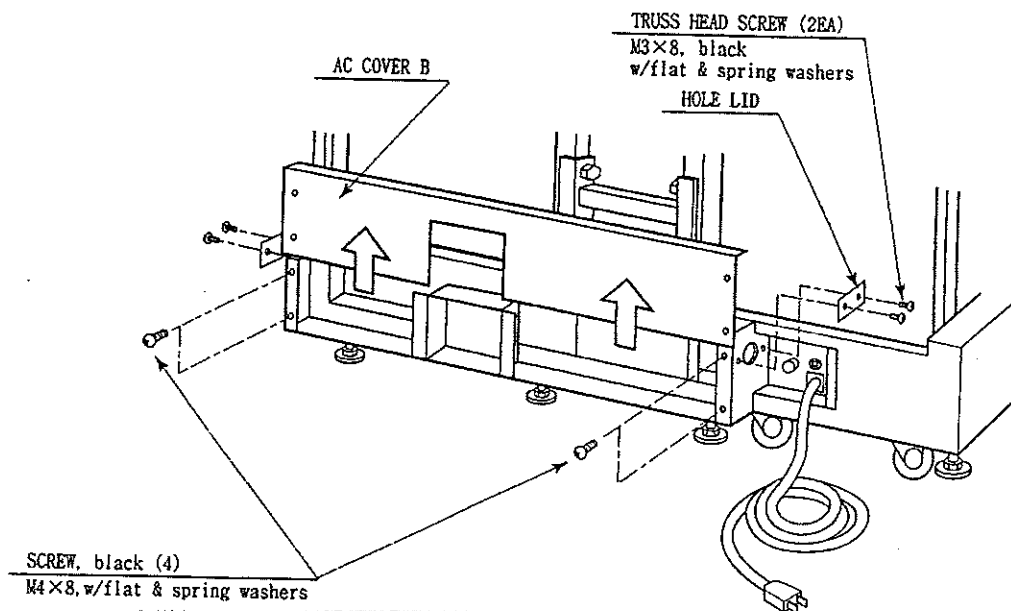
3.11.1. INSTALLATION PRECAUTIONS

1. When linking a number of machines be sure to supply sufficient power for the corresponding number of machines. The per unit standard voltage/amperage is 230V 7A.
2. Due to the length of the communications cables the distance between the machines will be approximately 0.2 metres or less.



3.11.2. CONNECTING THE COMMUNICATION CABLES

1. Take off the 4 screws and remove AC COVER B.
2. Remove the hole lid and connect the fibre optic cables as shown below.

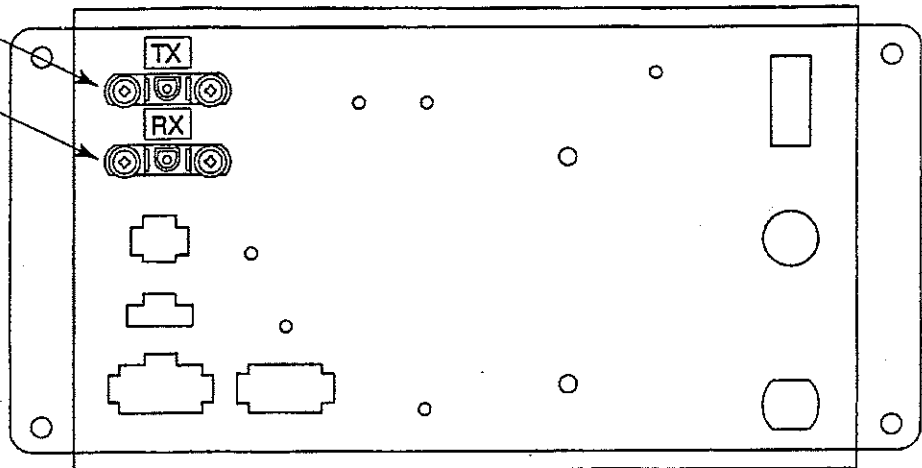


3. Depending on the number of units to be connected the connections are different. Be sure to connect the units as shown above. If a number other than those shown above is required to be connected ensure

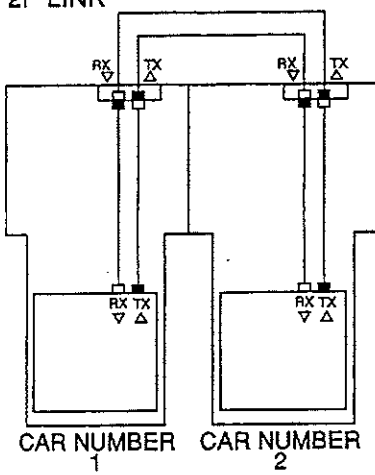
that the fibre optic cables are connected TX to RX in a similar manner as shown in order that the connection is looped.

BLACK (TX)

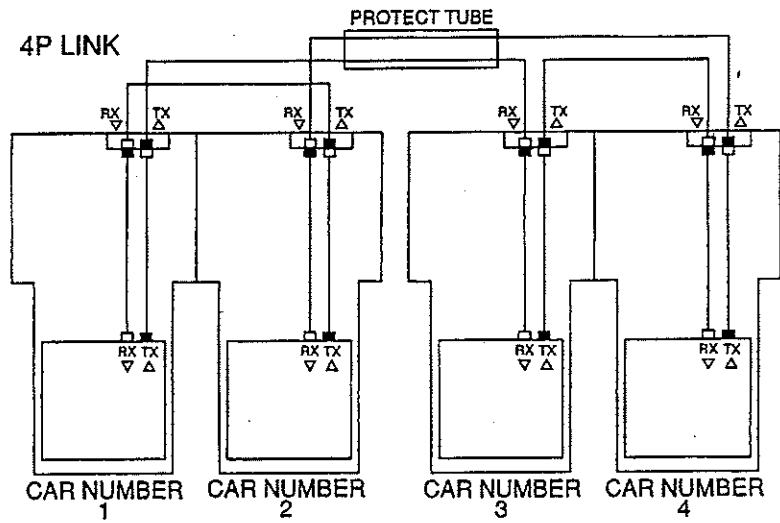
RED (RX)

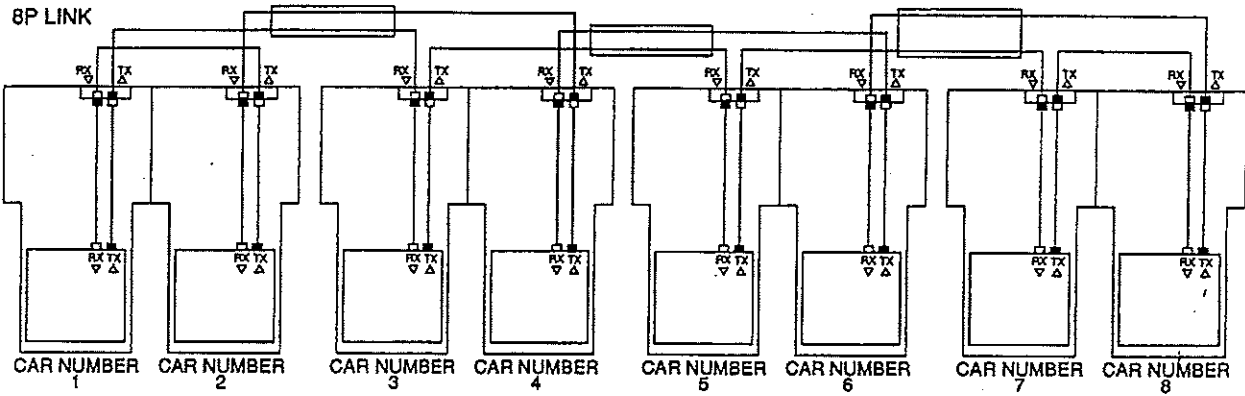
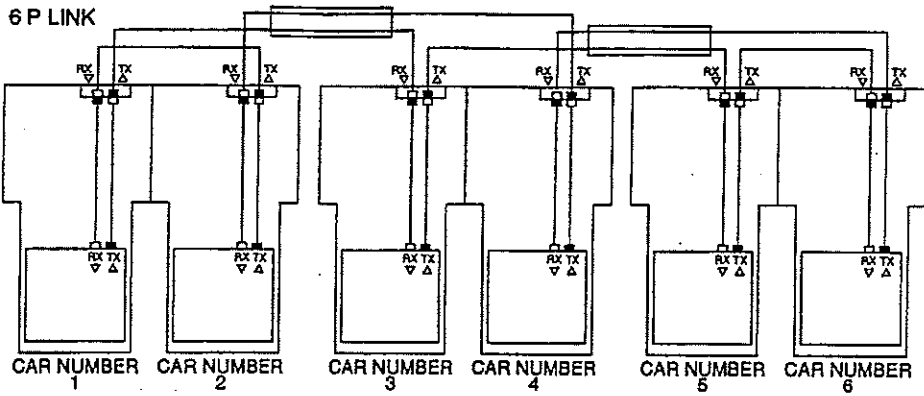


2P LINK

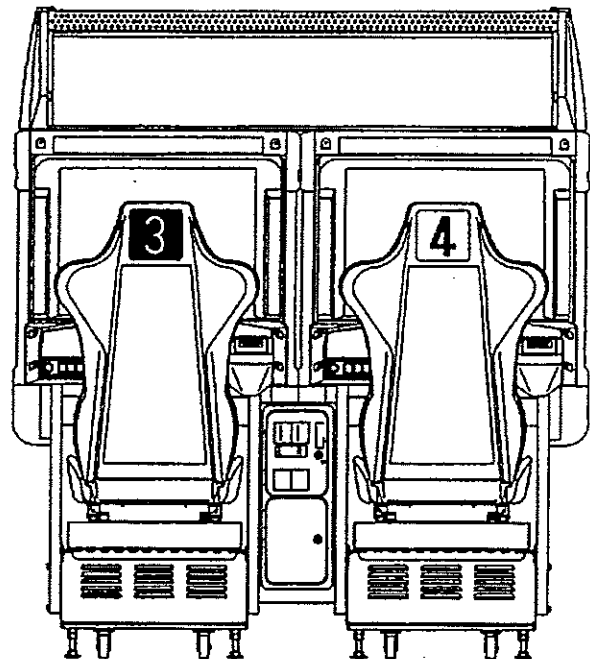
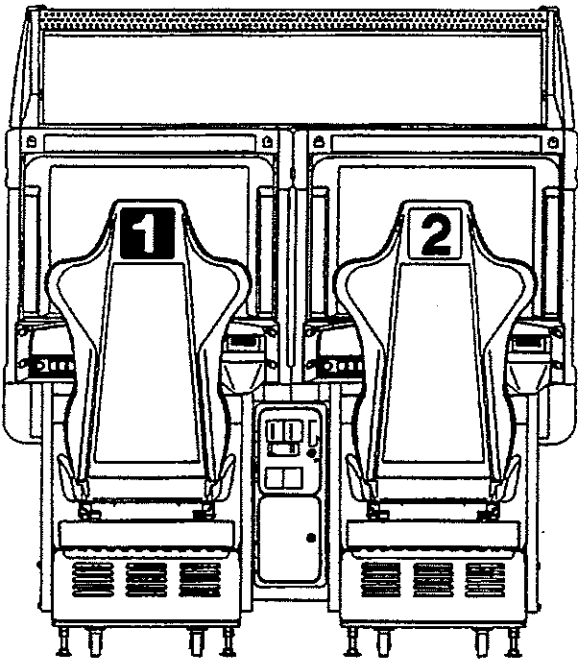


4P LINK





4. Apply the seat number stickers as shown below, sequentially starting from the left (facing the front of the monitor).



3.11.3.SETTING FOR COMMUNICATION PLAY



IMPORTANT!

- During interactive linked play, if communication between the cockpits is broken in any way (Eg: by power off or one seat being put into TEST MODE) the NETWORK CHECK will be displayed after the game is finished.

Make all of the seats enter into the GAME TEST mode and change the GAME ASSIGNMENTS of each seat for communication play.

1. Press the TEST button to navigated through the system test mode, enter the game test mode and select GAME ASSIGNMENTS.
2. Bring the arrow to LINK ID, press the TEST button and set the linked machines sequentially to CAR1,CAR2, CAR3 etc starting from the extreme left when facing the monitor. Set the left most cabinet to MASTER and subsequent cabinets to SLAVE. Be sure not to duplicate any car numbers as this can cause the display to be confused.

When setting communication play settings, set the MASTER cabinet in respect DIFFICULTY, GAME MODE,HANDICAP, ETC. All SLAVE seats are subject to changes made by the MASTER seat. Setting changes made by SLAVE seats will not be reflected in the game. Just make sure the SLAVE seats are set to SLAVE.

■ GAME ASSIGNMENTS ■	
LINK ID	MASTER
CABINET	TWIN
CAR NUMBER	1
DIFFICULTY	NORMAL
GAME MODE	NORMAL (SPRINT)
HANDICAP	HEAT
CONTINUE	ANY NUMBER OF TIMES
MOTOR POWER	80%
VISUAL MEMORY	OFF
LOCATION NAME	ENTRY
-> EXIT	

SELECT WITH SERVICE BUTTON
AND PRESS TEST BUTTON

Note that when exiting TEST mode the unit will perform a network check automatically. During this time all linked machines will be unavailable for play. Be sure not to enter TEST mode if a unit is in use.

3.12. PERIODIC CHECK AND INSPECTION

The items listed below require periodic check and maintenance to retain the performance of the machine and ensure safe operation:



WARNING!



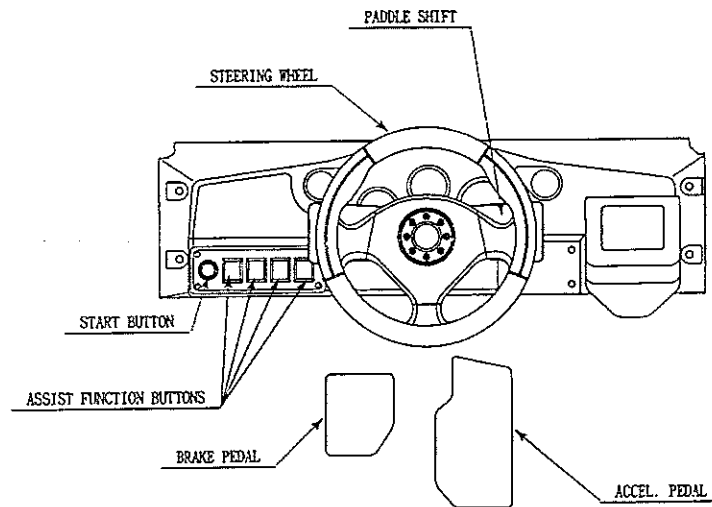
IMPORTANT!

- Be sure to check annually to see if the power cords are damaged. The plug is securely inserted and that there is no dust in the interior of the machine or between the socket and the power cord. Using the product in an unclean condition may cause a fire or electric shock.
- Periodic checks should only be carried out by QUALIFIED SERVICE PERSONNEL.

DESCRIPTION	WHAT TO CHECK	INTERVAL
HANDLE MECHA	Check the V.R. value	Monthly
	Check adjust gear engagement	Every 3 months
	Greasing of gears	Every 3 months
ACCELERATOR & BRAKE	Check the V.R. value	Monthly
	Check adjust gear engagement	Every 3 months
	Greasing of gears	Every 3 months
SHIFT LEVER	Check SW	Monthly
	Greasing	Every 3 months
MONITOR / PROJECTOR	Clean screen	Weekly
	Check adjustment	Monthly
SEAT	Rail greasing	Monthly
GAME BD	Memory Test	Monthly
	Game Assignments	Monthly
INTERIOR	Clean	Annually
POWER SUPPLY CORD	Check condition	Annually
CABINET SURFACE	Clean	As required
CONTROL PANEL	Lamp operation	Monthly
	Check switch operation	Monthly
COIN MECHANISM	Check SW (If Fitted)	Monthly

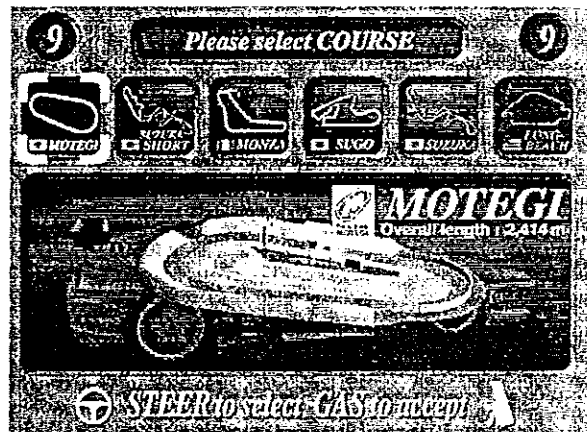
4. HOW TO PLAY

The following applies when the game is functioning satisfactorily. If the details are different, there may be a fault. Identify the fault and eliminate it to ensure satisfactory operation.



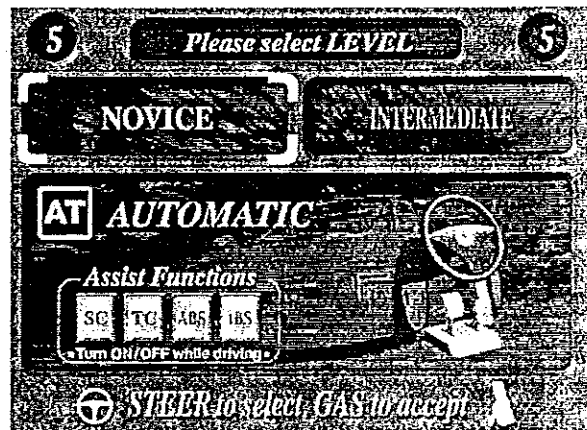
4.1. For stand-alone play

1. Insert the number of coins that are worth one credit. Up to 9 credits can be counted at one time. Coins inserted after counting 9 credits will neither be counted nor returned. However, those coins inserted after counting 9 credits are included in the Coin Meter as number of coins inserted.
2. Select the course from the 6 displayed.



Turn the Steering Wheel left and right to choose and decide the selection by stepping on the Accelerator Pedal.


3. Select the ability level from the 2 displayed.



4. The following levels area available in single play:


NOVICE	<ul style="list-style-type: none"> • Automatic • All assist functions are offered
INTERMEDIATE	<ul style="list-style-type: none"> • Semi-automatic (paddle shift) • All assist functions except IBS are offered.

About Assist Functions




Stability Control

Stabilizes and controls position of the car in a cornering.




Traction Control

Controls the powertrain in a wheelspin, and stabilizes the control of the car.



Anti-lock Brake System

Prevents your tires from locking when you brake.



Intelligent Brake System

Automatic braking before a curve.

Each Assist Function can be turned ON and OFF while driving.

5. Select the driving mode from the 3 displayed.



The following game modes are available in single play:

- TRAINING MODE** The course is taught on-screen with interactive instructions (voice and displays). You will learn the best line around the course, the characteristics of the car, the braking points and the best gear for a corner. In this mode, finishing the indicated number of laps within the time limit results in GAME OVER.
- DRIVING MODE** This mode is for practising the lessons taught in the training mode with just one car on the course. There is no on-screen tuition. In this mode, the game is over when the time expires. This can be prolonged by inserting more credits and pressing the CONTINUE button*.
- RACE MODE** This mode is for racing other computer-controlled cars in a sprint around the circuit. In this mode, finishing the indicated number of laps within the time limit results in GAME OVER.

* An additional 100 seconds per credit is added when the CONTINUE function is used.

4.2. For communication play

1. Insert the number of coins that are worth one credit. Up to 9 credits can be counted at one time. Coins inserted after counting 9 credits will neither be counted nor returned. However, those coins inserted after counting 9 credits are included in the Coin Meter as number of coins inserted.
2. Press the START button during the entry acceptance screen to enter the Communication Play mode.



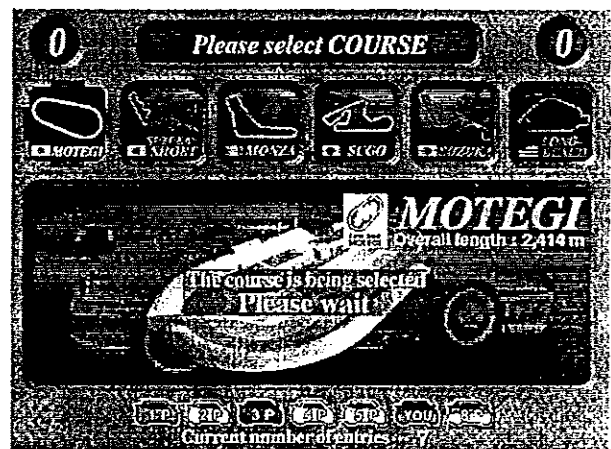
3. Select the course from the 6 displayed.

During Communication Play, the following communication conditions are available. Setting of the communication conditions can be changed in the GAME TEST mode.

HEAT: An exciting, nip-and-tuck race from the game start to the end.

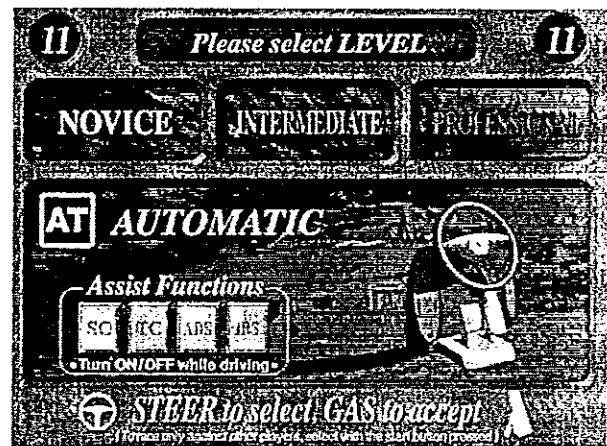
AID: By taking advantage of the Assist Functions, the NOVICE (AT) player can run the advanced player close.

PRO: Offers a hotly contested game under the equal condition among all cars.

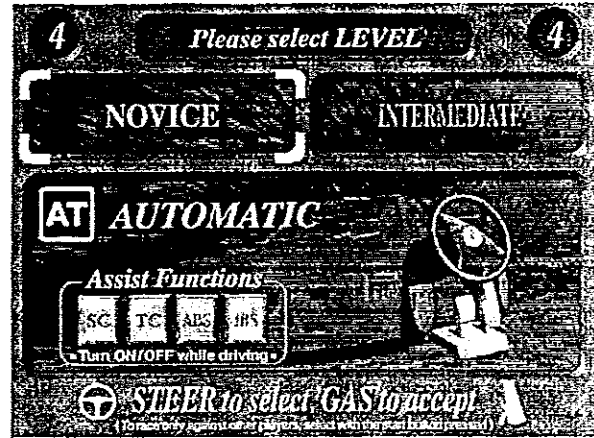


4. Select the ability level from the 3 displayed when the GAME ASSIGNMENTS are set to HEAT.

NOVICE	<ul style="list-style-type: none"> • Automatic • All assist functions are offered
INTERMEDIATE	<ul style="list-style-type: none"> • Semi-automatic (paddle shift) • All assist functions except IBS are offered.
PROFESSIONAL	<ul style="list-style-type: none"> • Semi-automatic (paddle shift) • All assist functions except IBS are offered. • In this mode, HANDICAP is not given



5. Select the ability level from the 2 displayed when the GAME ASSIGNMENTS are set to AID or PRO.



When AID is selected:

NOVICE	<ul style="list-style-type: none"> • Automatic • All assist functions are offered
INTERMEDIATE	<ul style="list-style-type: none"> • Semi-automatic (paddle shift) • All assist functions except IBS are offered. • In this mode, HANDICAP is not given

When PRO is selected:

NOVICE	<ul style="list-style-type: none"> • Automatic • All assist functions are offered
INTERMEDIATE	<ul style="list-style-type: none"> • Semi-automatic (paddle shift) • All assist functions except IBS are offered. • In this mode, HANDICAP is not given

5. MAINTENANCE INSTRUCTIONS

5.1. EXPLANATION OF TEST AND DATA DISPLAY

Use the switches on the VTS to enter the TEST MODE. This will allow you to carry out post installation and periodic checks and adjustments. The following section details the function of each of the tests:



IMPORTANT!

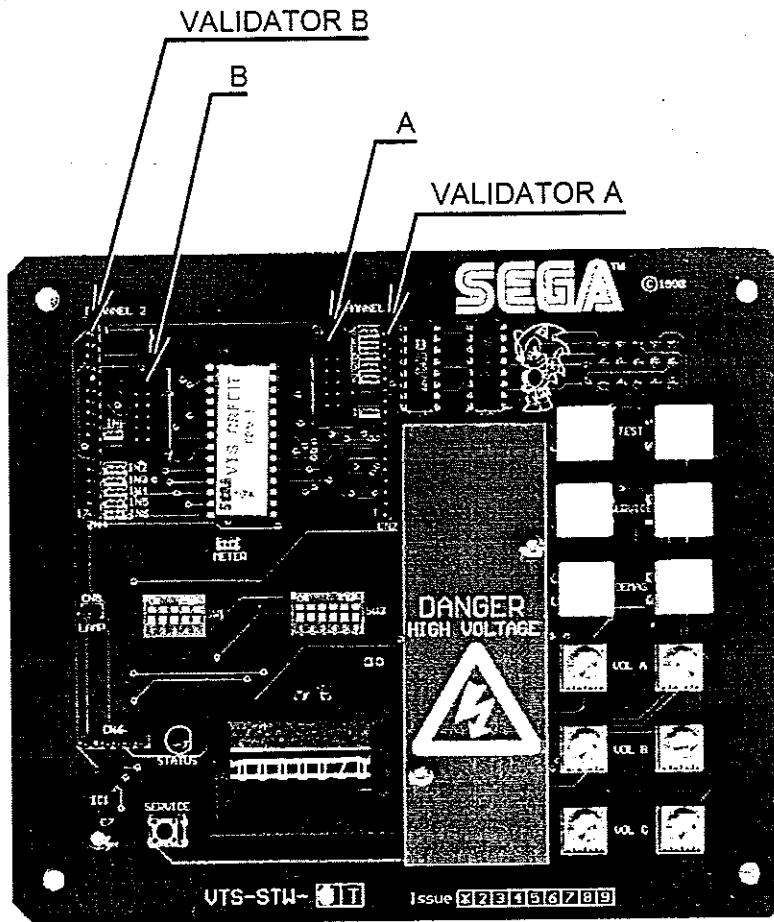
- Be very careful about entering TEST MODE. If the machine you wish to test is linked to other machines, exiting test on your machine will cause a network check to be carried out. This will disable all other machines linked to it.

ITEM	DESCRIPTION	INTERVAL	REFERENCES
INSTALLATION OF THE MACHINE	<p>When the machine is installed perform the following checks:</p> <ul style="list-style-type: none"> • Check to see that each setting is as per the standard settings input at the time of shipment. • In the INPUT TEST mode, check each switch and V.R. • In the OUTPUT TEST mode, check each of the lamps. • In the MEMORY TEST mode check all of the IC's on the IC BD. 	Monthly	3.5.7 5.1.2.3 5.1.3.2 5.1.2.1
MEMORY	<ul style="list-style-type: none"> • On the TEST MENU screen choosing the MEMORY TEST allows self test to be performed. In this test RAM & ROM are tested. 	Monthly	5.1.2.1
PERIODIC CHECKS	<p>Periodically perform the following</p> <ul style="list-style-type: none"> • MEMORY TEST. • Ascertain each setting. • In the INPUT TEST mode, test the control devices. • In the OUTPUT TEST mode, check each of the lamps. 	Monthly	5.1.2.1 5.1.2.3 5.1.3.2
CONTROL SYSTEM	<ul style="list-style-type: none"> • In the INPUT TEST mode, check each switch and V.R. • Adjust or replace each switch and V.R. 	Monthly	5.1.2.3 3.7
MONITOR	<ul style="list-style-type: none"> • In the C.R.T. TEST mode, check to ensure the monitor is adjusted correctly • Clean screen (switch off machine and remove the plug) 	Monthly Weekly	5.1.2.4
IC BOARD	<p>MEMORY TEST</p> <ul style="list-style-type: none"> • In the SOUND TEST mode, check the sound related ROMs 	Monthly	5.1.3.3
DATA CHECK	<ul style="list-style-type: none"> • Check such data as held in the bookkeeping screens, relating to number and length of plays 	Monthly	5.1.3.5
EXTERIOR MAINTENANCE	<ul style="list-style-type: none"> • Clean surfaces • Lubricate seat sliders 	Monthly	
COIN MECHANISM	<ul style="list-style-type: none"> • Check switch operation (if fitted) 	Monthly	

5.1.1. VTS ASSEMBLY



- Do not touch places other than those specified. Touching places not specified could cause an electric shock or short circuit.



Opening the Coin Chute door will reveal the VTS Assembly shown above. The function of each switch is as follows. The controls on the left affect the 1P cockpit, those on the right the 2P

TEST BUTTON
(TEST SW)

Used to enter TEST mode. Also has function during TEST mode. Refer to the later section detailing TEST mode.

SERVICE BUTTON
(SERVICE SW)

Gives credits without registering on the coin counter. Also used during TEST mode.

DEMAG

Eliminates colour unevenness from the monitor screen.

VOLUME CONTROL A

Adjusts the volume of the bass speakers.

VOLUME CONTROL B

Adjusts the volume of the speakers in the seat.

VOLUME CONTROL C

Is not used.

5.1.2. SYSTEM TEST MODE

The TEST MODE allows the functioning of each part of the machine to be checked. In addition game configuration and coin configuration changes can be made within TEST MODE.



IMPORTANT!

- When setting changes are made within TEST MODE, be sure to exit from TEST MODE using the exit options. If you turn the power off and then on without having exited correctly the changes you made will not take effect.

SYSTEM TEST SCREEN

```
SYSTEM MENU
XXXXX VERSION

RAM TEST
JVS TEST
SOUND TEST
C.R.T. TEST
SYSTEM ASSIGNMENTS
COIN ASSIGNMENTS
BOOKKEEPING
BACKUP DATA CLEAR
CLOCK SETTING

ROM BOARD TEST
GAME TEST MODE
[XXXXX XXXXX XXXXX XXXXX]

-> EXIT

SELECT WITH SERVICE BUTTON
AND
PRESS TEST BUTTON
```

Press the TEST BUTTON to bring up the screen shown to the left.

Press the SERVICE BUTTON to move downwards through the list. The current selection is shown by the arrow.

Press the TEST BUTTON to activate the selected test.

To finish TEST MODE, move the arrow to EXIT and press the TEST button.

5.1.2.1. RAM TEST

```
RAM TEST

IC29 GOOD
IC35 GOOD
IC16 GOOD   IC18 GOOD
IC20 GOOD   IC22 GOOD
IC09 GOOD   IC10 GOOD
IC11 GOOD   IC12 GOOD

PRESS TEST BUTTON TO EXIT
```

Selecting RAM TEST displays the screen on the left.

This allows the RAM on the Naomi Board to be checked.

GOOD is displayed for RAM that is OK, BAD is displayed for those that are not.

During the test, TESTING NOW is displayed.

To return to the previous screen, press the TEST button.

FF10 LED
→ LED 0010

F355
ERRR

5.1.2.2.JVS TEST

```

                JVS TEST
                INPUT TEST
                NEXT NODE
                → EXIT
NODE NAME      1/1
                SEGA ENTERPRISES, LTD.
                837-13741 I/O CONTROL BD
                Ver0.15
                99/06
CMD VER       1.1
JVS VER      2.0
COM VER      1.0
SWITCH       2PLAYER(S) 12BITS
COIN         2SLOT
ANALOG       8CH
ROTARY       0CH
KEYCODE      0
SCREEN       X:0 Y:0 CH:0
CARD         0SLOT
HOPPER OUT   0CH
DRIVER OUT   22 SLOT
ANALOG OUT   0 CH
CHARACTER    CHARA:0 LINE:0
BACKUP       0

                SELECT WITH SERVICE BUTTON
                AND
                PRESS TEST BUTTON
    
```

(A)
(B)
(C)

Selecting JVS TEST displays the screen on the left. This allows the I/O board connected to the Naomi main board to be checked.

- A. INPUT TEST Activates the INPUT TEST for the I/O board.
- B. NEXT NODE Where more than 2 I/O boards are connected, proceeds to check the next I/O board.
- C. EXIT Returns to the previous screen.

```

                JVS TEST
                INPUT TEST
                NEXT NODE
                → EXIT
NODE 1/1
SWITCH _____
SYSTEM      00000000
PLAYER1     00000000
            00000000
PLAYER2     00000000
            00000000
COIN _____
0000 0000
ANALOG _____
0000 0000 0000 0000
0000 0000 0000 0000

                SELECT WITH SERVICE BUTTON
                AND
                PRESS TEST BUTTON
    
```

When INPUT is performed for the switches of Control Panel, etc., the value changes to 1 from 0.

If the Coin SW is inputted, the value momentarily changes to 1 from 0. The Coin Meter counts.

Analogue values are displayed between 0000 and FF00.

5.1.2.3.INPUT TEST

```

                SOUND TEST

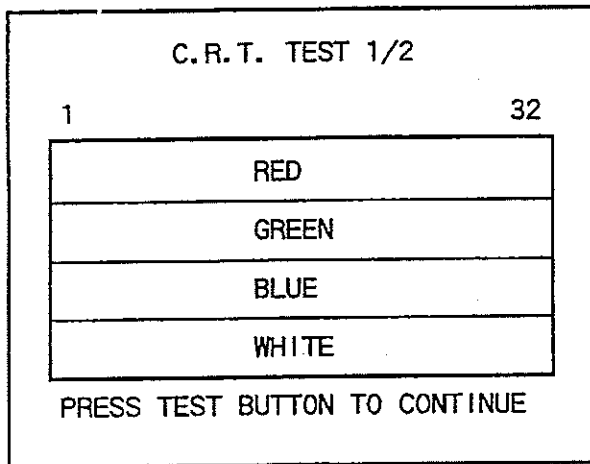
                RIGHT SPEAKER   OFF
                LEFT SPEAKER    OFF
                → EXIT

                SELECT WITH SERVICE BUTTON
                AND
                PRESS TEST BUTTON
    
```

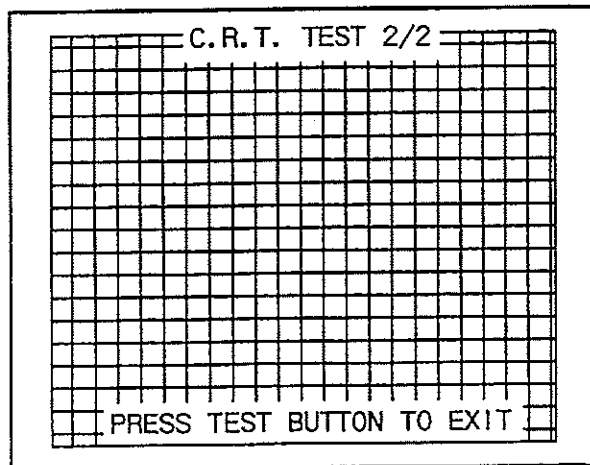
Selecting SOUND TEST displays the screen on the left.

A tone is emitted from the left or right speaker when selected using the SERVICE and TEST buttons.

5.1.2.4.C.R.T TEST



Selecting CRT TEST displays the screen on the left. By watching the screen periodically check if adjustments are needed. In the screen on the left check if any colour adjustments are required. Press TEST button to proceed to the next screen.

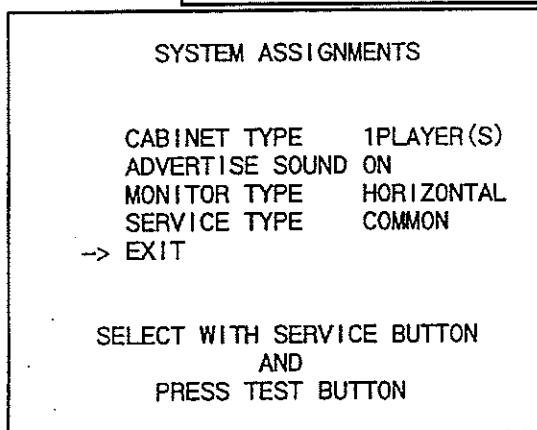


In the screen on the left check monitor size and position. Adjust the monitor to make sure that the crosshatch lines do not go beyond the screen size and crosshatch distortion does not occur. Press TEST button to return to the menu screen. For details on how to adjust the monitor refer to the monitor manual provided.

5.1.2.5. SYSTEM ASSIGNMENTS



- If the settings of CABINET TYPE and MONITOR TYPE are not suitable for the game, and error message is displayed after power-up and finishing the TEST MODE. If this is the case, the game will not be playable.



Selecting SYSTEM ASSIGNMENTS displays the screen on the left.

Press the SERVICE button to select the item and press TEST button to activate the item.

- (A)
- (B)
- (C)
- (D)

- A. CABINET TYPE Sets the number of players from 1 to 4. Default is 1 PLAYER.
- B. ADVERTISE SOUND Sets whether or not the sound is played during advertise mode. Default is ON
- C. MONITOR TYPE Default is HORIZONTAL.
- D. SERVICE TYPE Default is COMMON.

5.1.2.6. COIN ASSIGNMENTS

COIN ASSIGNMENTS	
COIN CHUTE TYPE	COMMON
COIN/CREDIT SETTING	#1
COIN CHUTE #1	
1 COIN 1 CREDIT	
COIN CHUTE #2	
1 COIN 1 CREDIT	
MANUAL SETTING	
SEQUENCE SETTING	
->EXIT	
SELECT WITH SERVICE BUTTON AND PRESS TEST BUTTON	

(A)
(B)

Selecting COIN ASSIGNMENTS displays the screen on the left.

This allows the incremental setting of credit increment vs coin insertion to be set.

Press the SERVICE button to select the item and press TEST button to activate the item.

Select EXIT and press TEST button to return to the previous screen.

(C)
(G)

(COMMON SETTING)

A. COIN CHUTE COMMON

Set to **COMMON**. Up to 2 coin inputs can be used and B. COIN/CREDIT SETTING ratios can be separate for each.

B. COIN / CREDIT SETTING

Set from #1 ~ #27. This sets the credit increase per coin insertion. This is expressed in terms of XX credits per YY coins inserted. Setting #27 is FREEPLAY (see below for details).

NAME OF SETTING	COIN CHUTE 1		COIN CHUTE 2	
SETTING #1	1 COIN	1 CREDIT	1 COIN	1 CREDIT
SETTING #2	1 COIN	2 CREDITS	1 COIN	1 CREDIT
SETTING #3	1 COIN	3 CREDITS	1 COIN	1 CREDIT
SETTING #4	1 COIN	4 CREDITS	1 COIN	1 CREDIT
SETTING #5	1 COIN	5 CREDITS	1 COIN	1 CREDIT
SETTING #6	1 COIN	2 CREDITS	1 COIN	2 CREDITS
SETTING #7	1 COIN	5 CREDITS	1 COIN	2 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	1 COIN	1 CREDIT	2 COINS	1 CREDIT
SETTING #14	1 COIN	2 CREDITS	2 COINS	1 CREDIT
SETTING #15	1 COIN	1 CREDIT	1 COIN	1 CREDIT
	2 COINS	3 CREDITS	2 COINS	3 CREDITS
SETTING #16	1 COIN	3 CREDITS	1 COIN	1 CREDIT
			2 COINS	3 CREDITS
SETTING #17	3 COINS	1 CREDIT	3 COINS	1 CREDIT
SETTING #18	4 COINS	1 CREDIT	4 COINS	1 CREDIT
SETTING #19	1 COIN	1 CREDIT	1 COIN	1 CREDIT
	2 COINS	2 CREDITS	2 COINS	2 CREDITS
	3 COINS	3 CREDITS	3 COINS	3 CREDITS
	4 COINS	5 CREDITS	4 COINS	5 CREDITS
SETTING #20	1 COIN	5 CREDITS	1 COIN	1 CREDIT
			2 COINS	2 CREDITS
			3 COINS	3 CREDITS
			4 COINS	5 CREDITS
SETTING #21	5 COINS	1 CREDIT	5 COINS	1 CREDIT
SETTING #22	1 COIN	2 CREDITS	3 COINS	1 CREDIT
			5 COINS	2 CREDITS
SETTING #23	2 COINS	1 CREDIT	2 COINS	1 CREDIT
	4 COINS	2 CREDITS	4 COINS	2 CREDITS
	5 COINS	3 CREDITS	5 COINS	3 CREDITS
SETTING #24	1 COIN	3 CREDITS	2 COINS	1 CREDIT
			4 COINS	2 CREDITS
			5 COINS	3 CREDITS
SETTING #25	1 COIN	1 CREDIT	1 COIN	1 CREDIT
	2 COINS	2 CREDITS	2 COINS	2 CREDITS
	3 COINS	3 CREDITS	3 COINS	3 CREDITS
	4 COINS	4 CREDITS	4 COINS	4 CREDITS
	5 COINS	6 CREDITS	5 COINS	6 CREDITS
SETTING #26	1 COIN	6 CREDITS	1 COIN	1 CREDIT
			2 COINS	2 CREDITS
			3 COINS	3 CREDITS
			4 COINS	4 CREDITS
			5 COINS	6 CREDITS
SETTING #27	FREE PLAY		FREE PLAY	

C. MANUAL SETTING

This sets the incremental increase vs coin insertion in greater detail than in B. above. When this mode is changed, the setting in B. becomes ineffective.

```

COIN ASSIGNMENTS
MANUAL SETTING

COIN TO CREDIT          1
BONUS ADDER             NO BONUS ADDER
COIN CHUTE #1 MULTIPLIER
1 COIN COUNT AS 1 COIN
COIN  1 2 3 4 5 6 7 8 9
CREDIT 1 2 3 4 5 6 7 8 9

COIN CHUTE #2 MULTIPLIER
1 COIN COUNT AS 1 COIN
COIN  1 2 3 4 5 6 7 8 9
CREDIT 1 2 3 4 5 6 7 8 9

SEQUENCE SETTING

->EXIT

SELECT WITH SERVICE BUTTON
AND
PRESS TEST BUTTON
    
```

For details of MANUAL SETTING, see the table below.

- (D)
- (E)
- (F)
- (F)
- (G)

COIN TO CREDIT	1 COIN 1 CREDIT
	2 COINS 1 CREDIT
	3 COINS 1 CREDIT
	4 COINS 1 CREDIT
	5 COINS 1 CREDIT
	6 COINS 1 CREDIT
	7 COINS 1 CREDIT
	8 COINS 1 CREDIT
	9 COINS 1 CREDIT

BONUS ADDER	NO BONUS ADDER
	2 COINS GIVE 1 EXTRA COIN
	3 COINS GIVE 1 EXTRA COIN
	4 COINS GIVE 1 EXTRA COIN
	5 COINS GIVE 1 EXTRA COIN
	6 COINS GIVE 1 EXTRA COIN
	7 COINS GIVE 1 EXTRA COIN
	8 COINS GIVE 1 EXTRA COIN
	9 COINS GIVE 1 EXTRA COIN

COIN CHUTE (#1/#2) MULTIPLIER	1 COIN COUNTS AS 1 COIN
	1 COIN COUNTS AS 2 COINS
	1 COIN COUNTS AS 3 COINS
	1 COIN COUNTS AS 4 COINS
	1 COIN COUNTS AS 5 COINS
	1 COIN COUNTS AS 6 COINS
	1 COIN COUNTS AS 7 COINS
	1 COIN COUNTS AS 8 COINS
	1 COIN COUNTS AS 9 COINS

D. MANUAL SETTING

Determines COIN/CREDIT setting.

E. BONUS ADDER

Sets how many coins should be inserted to obtain one SERVICE COIN.

F. COIN CHUTE (#1/#2) MULTIPLIER

Sets how many tokens one coin represents.

G. SEQUENCE SETTING

This sets the number of credits required to start and continue the game.

```

COIN ASSIGNMENTS
SEQUENCE SETTING

SEQUENCE 1      2 CREDIT(S)
SEQUENCE 2      1 CREDIT(S)
SEQUENCE 3      1 CREDIT(S)
SEQUENCE 4      1 CREDIT(S)
SEQUENCE 5      1 CREDIT(S)
SEQUENCE 6      1 CREDIT(S)
SEQUENCE 7      1 CREDIT(S)
SEQUENCE 8      1 CREDIT(S)
-> EXIT
[XXXXX XXXXX XXXXX XXXXX]
DESCRIPTION OF SEQUENCE
1 CREDIT TO START
2 CREDIT TO CONTINUE
3 CREDIT TO PRINTOUT
4 NO USE
5 NO USE
6 NO USE
7 NO USE
8 NO USE

SELECT WITH SERVICE BUTTON
AND PRESS TEST BUTTON
    
```

- SEQUENCE 1 Number of coins required to start the game.
- SEQUENCE 2 Number of coins required to continue the game.
- SEQUENCE 3~8 Not used.

5.1.2.7. BOOKKEEPING

```

BOOKKEEPING 1/2

TOTAL TIME
OD OOH OOM OOS

CREDIT          0

COIN 1          0
COIN 2          0
COIN 3          0
COIN 4          0

TOTAL COIN      0
COIN CREDIT     0
SERVICE CREDIT 0
TOTAL CREDIT    0

PRESS TEST BUTTON TO CONTINUE
    
```

Selecting BOOKKEEPING displays the screen on the left.

This allows the coin insertion statistics to be checked.

Press the TEST button to continue to screen 2/2.

```

BOOKKEEPING 2/2

P1 SEQ 1  0
P1 SEQ 2  0
P1 SEQ 3  0
P1 SEQ 4  0
P1 SEQ 5  0
P1 SEQ 6  0
P1 SEQ 7  0
P1 SEQ 8  0

PRESS TEST BUTTON TO EXIT
    
```

- P1 SEQ 1 Frequency of GAME START.
- P1 SEQ 2 Frequency of CONTINUE.
- P1 SEQ 3~8 Not used.

5.1.2.8. BACKUP DATA CLEAR

```

BACKUP DATA CLEAR

  YES (CLEAR)
-> NO (CANCEL)

SELECT WITH SERVICE BUTTON
      AND
PRESS TEST BUTTON
    
```

Selecting BACKUP DATA CLEAR displays the screen on the left.

This allows the contents of BOOKKEEPING to be cleared (coins, credits, time).

NB: The total time contents of the GAME TEST MODE BOOKKEEPING screen is also cleared.

To clear, Select YES by pressing the SERVICE button, then press the TEST button.

To keep the data, select NO and press the TEST button.

COMPLETED is displayed on the screen when the data is cleared.

Press the TEST button to return to the previous screen.

5.1.2.9. CLOCK SETTING

```

CLOCK SETTING

1998 12/02 14:30 33 WED

  YEAR
  MONTH
  DAY
  HOUR
  MINUTE
-> EXIT

SELECT WITH SERVICE BUTTON
      AND
PRESS TEST BUTTON
    
```

1998~2030

Selecting CLOCK SETTING displays the screen on the left.

This allows the time to be set.

Press the SERVICE button to bring the arrow to the desired item.

Press the TEST button to increment that item.

Select EXIT and press the TEST button to return to the previous screen.

5.1.2.10.ROM BOARD TEST

```

ROM BOARD TEST
[XXXXX XXXXX XXXXX]

NO.  TYPE  RESULT  BYTE  WORD
IC22 32M  _____  XXXX  XXXX
IC1  64M  GOOD      XXXX  XXXX
IC2  64M  GOOD      XXXX  XXXX
IC3  64M  GOOD      XXXX  XXXX
IC4  64M  GOOD      XXXX  XXXX
IC5  64M  GOOD      XXXX  XXXX
IC6  64M  GOOD      XXXX  XXXX
IC7  64M  GOOD      XXXX  XXXX
IC8  64M  GOOD      XXXX  XXXX
IC9  64M  GOOD      XXXX  XXXX
IC10 64M  GOOD      XXXX  XXXX
IC11 64M  GOOD      XXXX  XXXX
  :   :   :       :   :
IC21 64M  GOOD      XXXX  XXXX

PRESS TEST BUTTON TO EXIT
    
```

Selecting ROM BOARD TEST displays the screen on the left.

This allows the ROM on the Naomi ROM Board to be checked.

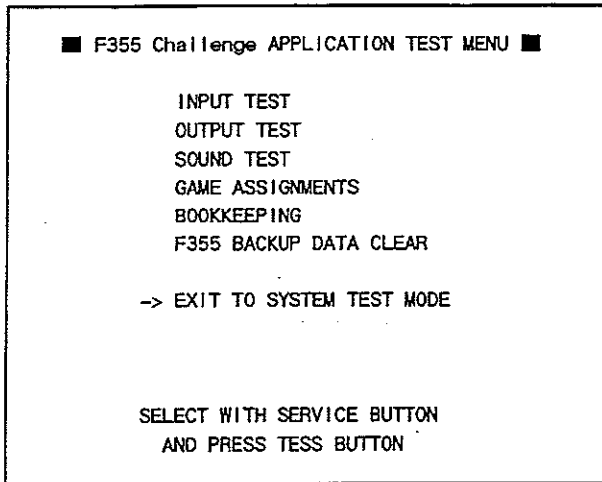
GOOD is displayed for ROM that is OK, BAD is displayed for those that are not.

NB: IC22 does not display GOOD or BAD.

BYTE and WORD refers to the checksum of each ROM.

To return to the previous screen, press the TEST button.

5.1.3. GAME TEST MODE



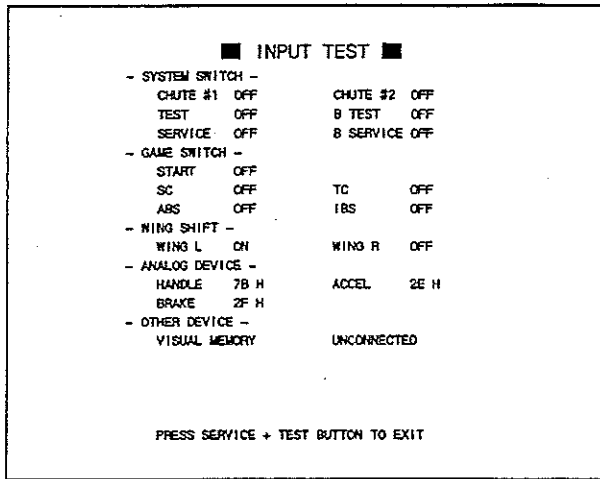
Selecting the GAME TEST MODE in the SYSTEM TEST MODE screen displays the screen to the left.

Press the SERVICE BUTTON to move downwards through the list. The current selection is shown by the arrow.

Press the TEST BUTTON to activate the selected test.

To finish GAME TEST MODE, move the arrow to EXIT and press the TEST button. Then press the TEST button again to return to the game play mode.

5.1.3.1.INPUT TEST



Selecting INPUT TEST displays the screen to the left.

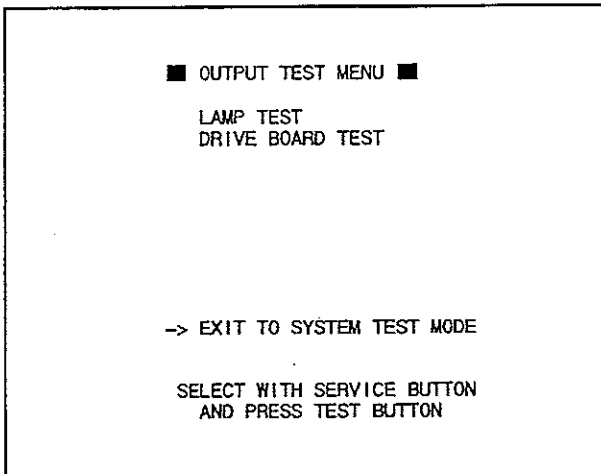
This allows the operation of each switch any , Variable Resistor (VR) to be checked.

When testing, if the display changes from OFF to ON, operation is satisfactory.

NB: B-TEST & B-SERVICE are on the front of the FILTER BOARD on the SHIELD CASE ASSEMBLY.

Press the SERVICE and TEST buttons simultaneously to end the test and return to the previous screen.

5.1.3.2.OUTPUT TEST



Selecting OUTPUT TEST displays the screen to the left.

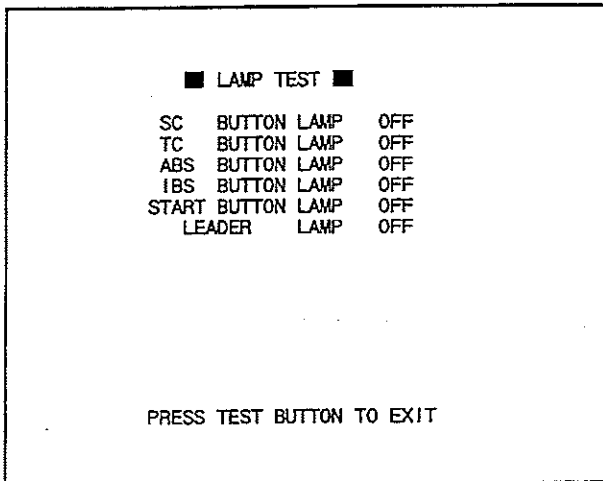
This allows the operation of LAMPS and the DRIVE BOARD to be checked.

Press the SERVICE BUTTON to move downwards through the list. The current selection is shown by the arrow.

Press the TEST BUTTON to activate the selected test.

Select EXIT and press the TEST button to return to the previous screen.

5.1.3.2.1.LAMP TEST



Selecting LAMP TEST displays the screen to the left.

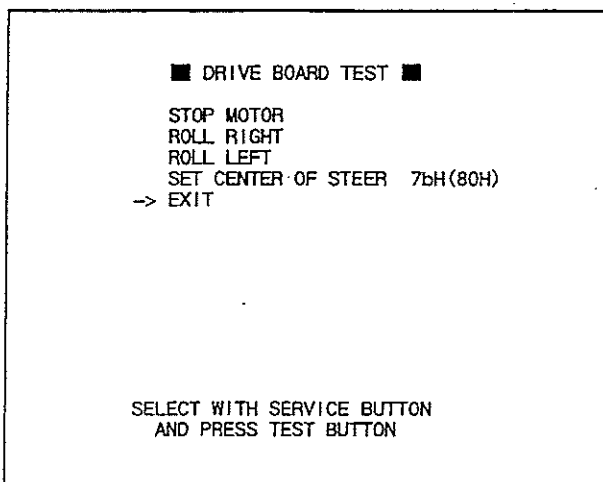
Each lamp will flash in sequence automatically upon entering this test.

When the lamps are illuminated, the display on-screen changes from OFF to ON.

Check the operation of the lamps to ensure they are satisfactory.

Press the TEST BUTTON to return to the previous screen.

5.1.3.2.2.DRIVE BOARD TEST



Selecting DRIVE BOARD TEST displays the screen to the left.

Press the SERVICE BUTTON to move downwards through the list. The current selection is shown by the arrow.

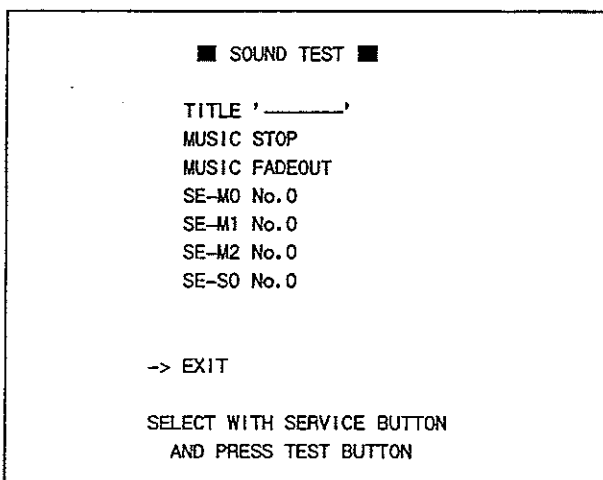
Press the TEST BUTTON to activate the selected test.

ROLL RIGHT / LEFT makes the steering wheel turn to that direction to the end stop.

SET CENTER OF STEER defines the centre position of the wheel. Select this option using the SERVICE button. Turn the steering wheel so that it is in the straight-ahead position and press the TEST button. The value (in Hex.) displayed to the right should fall within the range $80H \pm 10H$.

Select EXIT and press the TEST button to return to the previous screen.

5.1.3.3.SOUND TEST



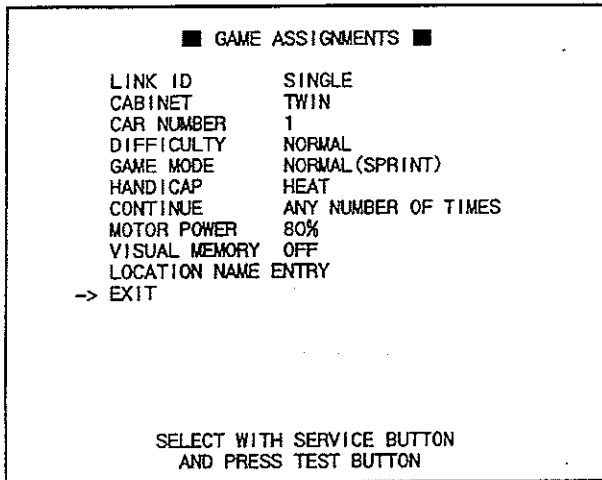
Selecting SOUND TEST displays the screen to the left.

Press the SERVICE BUTTON to move downwards through the list. The current selection is shown by the arrow.

Press the TEST BUTTON to activate the selected test. To stop the sound, select either MUSIC STOP or MUSIC FADEOUT and press the TEST button.

Select EXIT and press the TEST button to return to the previous screen.

5.1.3.4.GAME ASSIGNMENTS



Selecting GAME ASSIGNMENTS displays the screen to the left.

Press the SERVICE BUTTON to move downwards through the list. The current selection is shown by the arrow.

Press the TEST BUTTON to activate the selected test.

Select EXIT and press the TEST button to return to the previous screen.

LINK ID	Communication play setting. Set to SINGLE, MASTER or SLAVE. For independent cockpit operation, set to SINGLE. For communication play, one of the linked cockpits needs to be set to MASTER, the others to SLAVE.
CABINET	Default setting is TWIN.
CAR NUMBER	Car number setting. Set the car number sequentially beginning with the left-most cabinet (when viewing the monitor) 1,2,3,4...
DIFFICULTY	Time difficulty setting. Select between EASY, NORMAL, HARD & HARDEST. Default setting is NORMAL.
GAME MODE	Lap setting. Select between NORMAL (SPRINT) & GRAND PRIX. Note that the GRAND PRIX setting is for special events and lasts a long time. Default setting is NORMAL (SPRINT).
HANDICAP	Effective when communication play is operating. Select between HEAT, AID & PRO (described in section 4). Default setting is HEAT.
CONTINUE	Sets if the game can be continued when time runs out & if so, the number of laps. OFF No continue. ONLY ONCE 1 lap. ANY NUMBER OF TIMES Unlimited. Default setting is ANY NUMBER OF TIMES.
MOTOR POWER	Sets the steering wheel feedback. Select between 60%, 80%,90% & 100%. Default setting is 80%.
VISUAL MEMORY	Default setting is OFF.
LOCATION NAME ENTRY	Not used (related the VISUAL MEMORY).

5.1.3.5.BOOKKEEPING

■ BOOKKEEPING PAGE 1/2 ■	
COIN/CREDIT & TIME DATA	
1999 YEAR 9 MONTH 19 DAY	16:27 41
CHUTE #1	XXX
CHUTE #2	XXX
TOTAL COIN	XXX
COIN CREDIT	XXX
SERVICE CREDIT	XX
TOTAL CREDIT	XXX
TOTAL PLAY GAMES	XXX
TOTAL CONTINUE GAMES	X
CONTINUE RATIO	X.XX
TOTAL TIME	XD XXX XXX XS
PLAY TIME	XD XXX XXX XS
AVERAGE TIME	XD XXX XXX XS

PRESS TEST BUTTON TO NEXT PAGE

Selecting BOOKKEEPING displays the screen to the left.

Press the TEST BUTTON to proceed to the next screen.

CHUTE #X	Total number of coins inserted into chute #X.
TOTAL COIN	Total number of coins inserted.
COIN CREDIT	Number of credits registered by inserting coins.
SERVICE CREDIT	Number of credits given by the service button.
TOTAL CREDIT	Total number of credits.
TOTAL PLAY GAMES	Total number of plays.
TOTAL CONTINUE GAMES	Total number of continues.
CONTINUE RATIO	Ratio of continue games to total games
TOTAL TIME	Total energised time.
PLAY TIME	Total play time.
AVERAGE TIME	Average play time.

■ BOOKKEEPING PAGE 2/2 ■	
PLAY TIME HISTOGRAM	
1999 YEAR 9 MONTH 19 DAY	16:33 20
COURSE	MOTEGI SUZU SH MONZA SUGO SUZUKA LG LONGBEACH
UNDER 1M29S	22 0 0 3 0 0 0
1M30S-1M59S	1 0 0 2 0 0 0
2M00S-2M29S	1 0 0 0 0 0 0
2M30S-2M59S	2 0 0 0 0 0 0
3M00S-3M29S	0 1 1 1 0 0 0
3M30S-3M59S	0 0 1 1 0 0 0
4M00S-4M29S	0 0 3 0 0 0 0
4M30S-4M59S	0 0 0 0 0 0 0
5M00S-5M29S	0 0 0 0 0 0 0
5M30S-5M59S	0 0 0 0 0 0 0
6M00S-6M29S	0 0 0 0 0 0 0
6M30S-6M59S	0 0 0 0 0 0 0
7M00S-7M29S	0 0 0 0 0 0 0
OVER 7M30S	0 0 0 0 0 0 0

PRESS TEST BUTTON TO EXIT

Screen 2/2 shows the time histogram for each circuit.

Press the TEST button to return to the GAME TEST MODE.

5.1.3.6.F355 BACKUP DATA CLEAR

■ F355 BACKUP DATA CLEAR ■

YES (CLEAR)
-> NO (CANCEL)

SELECT WITH SERVICE BUTTON
AND PRESS TEST BUTTON

Selecting F355 BACKUP DATA CLEAR displays the screen to the left.

This allows the contents of BOOKKEEPING to be cleared that cannot be cleared in the SYSTEM TEST section (ranking, name entry, etc).

To clear, Select YES by pressing the SERVICE button, then press the TEST button.

To keep the data, select NO and press the TEST button.

COMPLETED is displayed on the screen when the data is cleared.

Press the TEST button to return to the previous screen.

5.2. COIN MECH INSTALLATION AND CREDIT BOARD SET UP



IMPORTANT!

- This game can be fitted with either the Klingon Plus credit board or the VTS assembly as detailed below. First identify the type that is fitted to the product before operating.

Game credits between the Coin Mechanism and the game board for this machine are controlled either by a VTS Board or a *Klingon 2* board. These electronic circuits allow the price of play to be set for a range of different countries. These functions are set on Dual In Line (DIL) PCB mounted switches.

5.2.1. KLINGON PLUS CREDIT BOARD

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 *Klingon2* board pictured below is mounted on the VTS Bracket within the Coin Chute Tower.

The *Klingon2* board is connected to the coin validator and lamps via a dedicated wiring harness depending upon the coin validator used:

Wiring Harness	Validator	
LM1006	Coin Controls	(15 way connector)
LM1007	Mars	(13 way connector)
LM1008	Mechanical	See note 2
N/A	NRI	See note 1

Notes

1. If NRI mechanisms 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 2* board should be then be set up for either the UK or Switzerland settings. A minimum connecting lead length of 600mm is required.
2. Mechanical coin mechanisms may be connected in parallel allowing two identical mechanisms to be fitted.

5.2.2. KLINGON 2 CREDIT BOARD OPTION SETTINGS

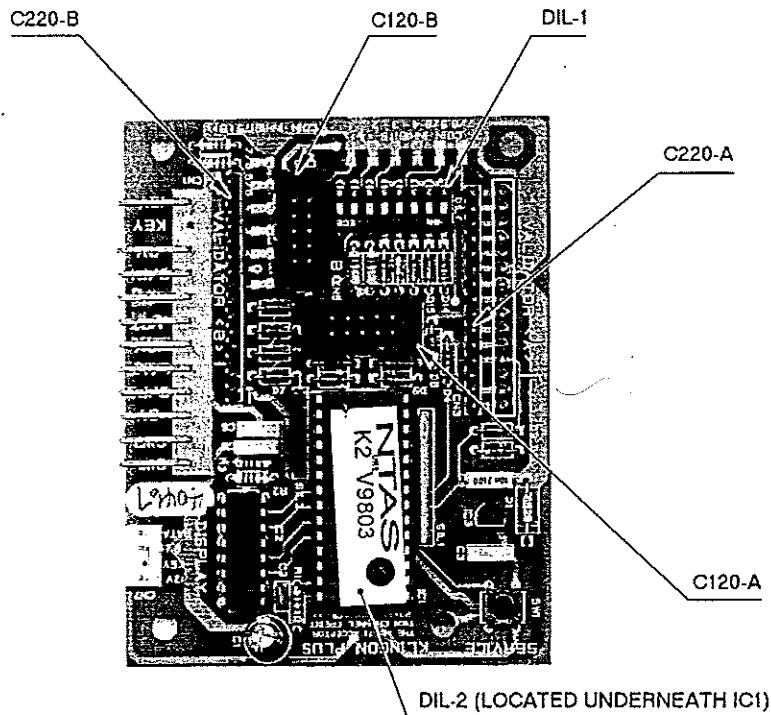
Universal Currency Settings - DIL Switch 2

4	3	2	1	Currency	C1	C2	C3	C4	C5	C6	C7	C8
↓	off	off	off	UK (p)	100	50	20	10	-	200	-	50(old)
↓	off	off	ON	Belgium (BFr)	-	50	20	5	-	-	-	-
↓	off	ON	off	Spain (Pta)	500	200	100	50	-	25	-	200(old)
↓	off	ON	ON	Germany (DM)	10	5	2	1	-	-	-	-
↓	ON	off	off	Netherlands (NLG)	-	5	2.5	1	-	-	-	-
↓	ON	off	ON	Portugal (Es)	100	50	-	-	-	-	-	-
↓	ON	ON	off	Austria (Sch)	20	10	5	1	-	-	-	-
↓	ON	ON	ON	Switzerland (SFr)	5	2	1	-	-	-	-	-
OFF	↑	↑	↑	Direct Mode	↑	↑	↑	↑	↑	↑	↑	↑
ON	↑	↑	↑	2 Channel Mode	↑	↑	↑	↑	↑	↑	↑	↑

Note: These switch settings are under constant review and may change due to world currency updates.

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 2* board located under the IC socket as shown in the table above. SW-4 must always be set ON. 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.



The "Klingon 2" board.

5.2.2.1.PRICE OF PLAY SETTINGS UNIVERSAL

Universal Credit Settings - DIL Switch 1

Currency	Value of each U	Value of each Meter Pulse
UK	10 p	10 p
Belguim	5 BFr	5 BFr
Spain	25 Pta	25 Ptas
Germany	1 DM	1 DM
Holland	½ NLG	½ NLG
Portugal	25 Es	25 Es
Austria	1 Sch	1 Sch
Switzerland	1 SFr	1 SFr

DIL Switch 1 Settings

Per Game	Bonus	5	4	3	2	1
1U	6 for 5U					ON
2U	3 for 5U				ON	ON
3U	2 for 5U			ON		ON
4U	3 for 10U			ON	ON	ON
5U	5 for 20U		ON			ON
6U	2 for 10U		ON		ON	ON
8U	3 for 20U		ON	ON		
10U	3 for 20U		ON	ON	ON	ON
12U		ON				
15U		ON				ON
20U		ON			ON	
25U		ON			ON	ON
30U		ON		ON		
35U		ON		ON		ON
40U		ON		ON	ON	
45U		ON		ON	ON	ON
50U		ON	ON			
Free		ON	ON	ON	ON	ON

Coin Mech Mode

DIL Switch 1

6	7	8	
n/u	ON	ON	Binary
n/u	OFF	OFF	Parallel

The price of play settings for each country can be worked out by combining the two tables above.

5.2.2.2.PRICE OF PLAY SETTINGS FOR THE UK (£ = Pound Sterling)

Parallel 4 Coin Validator

1	2	3	4
£1	50p new (50p) old	20p	10p

C220 Binary Mode Validator

1	2	3	4	5	6	7	8
£1	50p (new)	20p	10p		£2		50p (old)

C120 Validator

1	2	3	4	5	6
£1	50p new 50p old	20p	10p	n/u	£2

DIL Switch 2 (situated beneath NTAS chip)Settings

Mode	1	2	3	4
Direct Mode	OFF	OFF	OFF	OFF
2 Channel Mode	OFF	OFF	OFF	ON

DIL Switch 1 Settings

Per Game	Bonus	5	4	3	2	1
10p						
10p	6 for 50p					ON
20p					ON	
20p	3 for 50p				ON	ON
30p				ON		
30p	2 for 50p			ON		ON
40p				ON	ON	
40p	3 for £1			ON	ON	ON
50p			ON			
50p	5 for £2		ON			ON
60p			ON		ON	
60p	2 for £1		ON		ON	ON
80p			ON	ON		
80p	3 for £2		ON	ON		ON
£1			ON	ON	ON	
£1	3 for £2		ON	ON	ON	ON
£1.20		ON				
£1.50		ON				ON
£2.00		ON			ON	
£2.50		ON			ON	ON
£3.00		ON		ON		
£3.50		ON		ON	ON	ON
£4.00		ON		ON	ON	
£4.50		ON		ON	ON	ON
£5.00		ON	ON			
Free Play		ON	ON	ON	ON	ON

Coin Mech Mode DIL Switch 1

6	7	8	
n/u	ON	ON	Binary
n/u	OFF	OFF	Parallel

5.2.2.3.PRICE OF PLAY SETTINGS FOR BELGUIM (BFr = Belgian Franc)

Parallel 4 Coin Validator

1	2	3	4
	50	20	5

C220 Binary Mode Validator

1	2	3	4	5	6	7	8
	50	20	5				

C120 Validator

1	2	3	4	5	6
	50	20	5		

DIL Switch 2 Settings

Mode	4	3	2	1
Direct Mode	OFF	OFF	OFF	ON
2 Channel Mode	ON	OFF	OFF	ON

DIL Switch 1 Settings

Per Game	Bonus	5	4	3	2	1
5 BFr						
5 BFr	6 for 25 BFr					ON
10 BFr					ON	
10 BFr	3 for 25 BFr				ON	ON
15 BFr				ON		
15 BFr	2 for 25 BFr			ON		ON
20 BFr				ON	ON	
20 BFr	3 for 50 BFr			ON	ON	ON
25 BFr			ON			
25 BFr	5 for 100 BFr		ON			ON
30 BFr			ON		ON	
30 BFr	2 for 50 BFr		ON		ON	ON
40 BFr			ON	ON		
40 BFr	3 for 100 BFr		ON	ON		ON
50 BFr			ON	ON	ON	
50 BFr	3 for 100 BFr		ON	ON	ON	ON
60 BFr		ON				
75 BFr		ON				ON
100 BFr		ON			ON	
125 BFr		ON			ON	ON
150 BFr		ON		ON		
175 BFr		ON		ON		ON
200 BFr		ON		ON	ON	
225 BFr		ON		ON	ON	ON
250 BFr		ON	ON			
Free Play		ON	ON	ON	ON	ON

Coin Mech Mode DIL Switch 1

6	7	8	
n/u	ON	ON	Binary
n/u	OFF	OFF	Parallel

5.2.2.4.PRICE OF PLAY SETTINGS FOR SPAIN (Pta = Peseta)

Parallel 4 Coin Validator

1	2	3	4
500	200 (200)	100	50 (50)

C220 Binary Mode Validator

1	2	3	4	5	6	7	8
500	200	100	50		25		(200)

C120 Validator

1	2	3	4	5	6
500	200 (200)	100	50 (50)		25 (25)

DIL Switch 2 Settings

Mode	4	3	2	1
Direct Mode	OFF	OFF	ON	OFF
2 Channel Mode	ON	OFF	ON	OFF

DIL Switch 1 Settings

Per Game	Bonus	5	4	3	2	1
25 Pta						
25 Pta	6 for 125 Pta					ON
50 Pta					ON	
50 Pta	3 fo 125 Pta				ON	ON
75 Pta				ON		
75 Pta	2 for 125 Pta			ON		ON
100 Pta				ON	ON	
100 Pta	3 for 250 Pta			ON	ON	ON
125 Pta			ON			
125 Pta	5 for 500 Pta		ON			ON
150 Pta			ON		ON	
150 Pta	2 for 250 Pta		ON		ON	ON
200 Pta			ON	ON		
200 Pta	3 for 500 Pta		ON	ON		ON
250 Pta			ON	ON	ON	
250 Pta	3 for 500 Pta		ON	ON	ON	ON
300 Pta		ON				
375 Pta		ON				ON
500 Pta		ON			ON	
625 Pta		ON			ON	ON
750 Pta		ON		ON		
875 Pta		ON		ON		ON
1000 Pta		ON		ON	ON	
1125 Pta		ON		ON	ON	ON
1250 Pta		ON	ON			
Free Play		ON	ON	ON	ON	ON

Coin Mech Mode DIL Switch 1

6	7	8	
n/u	ON	ON	Binary
n/u	OFF	OFF	Parallel

5.2.2.5.PRICE OF PLAY SETTINGS FOR THE NETHERLANDS (NLG = Netherlands Guilder)

Parallel 4 Coin Validator

1	2	3	4
	5	2.5	1

C220 Binary Mode Validator

1	2	3	4	5	6	7	8
	5	2.5	1				

C120 Validator

1	2	3	4	5	6
	5	2.5	1		

DIL Switch 2 Settings

Mode	4	3	2	1
Direct Mode	OFF	ON	OFF	OFF
2 Channel Mode	ON	ON	OFF	OFF

DIL Switch 1 Settings

Per Game	Bonus	5	4	3	2	1
0.5 NLG						
0.5 NLG	6 for 2.5 NLG					ON
1 NLG					ON	
1 NLG	3 for 2.5 NLG				ON	ON
1.5 NLG				ON		
1.5 NLG	2 for 2.5 NLG			ON		ON
2 NLG				ON	ON	
2 NLG	3 for 5 NLG			ON	ON	ON
2.5 NLG			ON			
2.5 NLG	5 for 10 NLG		ON			ON
3 NLG			ON		ON	
3 NLG	2 for 5 NLG		ON		ON	ON
4 NLG			ON	ON		
4 NLG	3 for 10 NLG		ON	ON		ON
5 NLG			ON	ON	ON	
5 NLG	3 for 10 NLG		ON	ON	ON	ON
6 NLG		ON				
7.5 NLG		ON				ON
10 NLG		ON			ON	
12.5 NLG		ON			ON	ON
15 NLG		ON		ON		
17.5 NLG		ON		ON		ON
20 NLG		ON		ON	ON	
22.5 NLG		ON		ON	ON	ON
25 NLG		ON	ON			
Free Play		ON	ON	ON	ON	ON

Coin Mech Mode DIL Switch 1

6	7	8	
n/u	ON	ON	Binary
n/u	OFF	OFF	Parallel

5.2.2.6.PRICE OF PLAY SETTINGS FOR PORTUGAL (Es = Escudo)

Parallel 4 Coin Validator

1	2	3	4
100	50		

C220 Binary Mode Validator

1	2	3	4	5	6	7	8
100	50						

C120 Validator

1	2	3	4	5	6
100	50				

DIL Switch 2 Settings

Mode	4	3	2	1
Direct Mode	OFF	ON	OFF	ON
2 Channel Mode	ON	ON	OFF	ON

DIL Switch 1 Settings

Per Game	Bonus	5	4	3	2	1
25 Es						
25 Es	6 for 125 Es					ON
50 Es					ON	
50 Es	3 for 125 Es				ON	ON
75 Es				ON		
75 Es	2 for 125 Es			ON		ON
100 Es				ON	ON	
100 Es	3 for 250 Es			ON	ON	ON
125 Es			ON			
125 Es	5 for 500 Es		ON			ON
150 Es			ON		ON	
150 Es	2 for 250 Es		ON		ON	ON
200 Es			ON	ON		
200 Es	3 for 500 Es		ON	ON		ON
250 Es			ON	ON	ON	
250 Es	3 for 500 Es		ON	ON	ON	ON
300 Es		ON				
375 Es		ON				ON
500 Es		ON			ON	
625 Es		ON			ON	ON
750 Es		ON		ON		
875 Es		ON		ON		ON
1000 Es		ON		ON	ON	
1125 Es		ON		ON	ON	ON
1250 Es		ON	ON			
Free Play		ON	ON	ON	ON	ON

Coin Mech Mode

DIL Switch 1

6	7	8	
n/u	ON	ON	Binary
n/u	OFF	OFF	Parallel

5.2.2.7.PRICE OF PLAY SETTINGS FOR AUSTRIA (Sch = Schilling)

Parallel 4 Coin Validator

1	2	3	4
20	10	5	1

C220 Binary Mode Validator

1	2	3	4	5	6	7	8
20	10	5	1				

C120 Validator

1	2	3	4	5	6
20	10	5	1		

DIL Switch 2 Settings

Mode	4	3	2	1
Direct Mode	OFF	ON	ON	OFF
2 Channel Mode	ON	ON	ON	OFF

DIL Switch 1 Settings

Per Game	Bonus	5	4	3	2	1
1 Sch						
1 Sch	6 for 5 Sch					ON
2 Sch					ON	
2 Sch	3 for 5 Sch				ON	ON
3 Sch				ON		
3 Sch	2 for 5 Sch			ON		ON
4 Sch				ON	ON	
4 Sch	3 for 10 Sch			ON	ON	ON
5 Sch			ON			
5 Sch	5 for 20 Sch		ON			ON
6 Sch			ON		ON	
6 Sch	2 for 10 Sch		ON		ON	ON
8 Sch			ON	ON		
8 Sch	3 for 20 Sch		ON	ON		ON
10 Sch			ON	ON	ON	
10 Sch	3 for 20 Sch		ON	ON	ON	ON
12 Sch		ON				
15 Sch		ON				ON
20 Sch		ON			ON	
25 Sch		ON			ON	ON
30 Sch		ON		ON		
35 Sch		ON		ON		ON
40 Sch		ON		ON	ON	
45 Sch		ON		ON	ON	ON
50 Sch		ON	ON			
Free Play		ON	ON	ON	ON	ON

*Coin Mech Mode
DIL Switch 1*

6	7	8	
n/u	ON	ON	Binary
n/u	OFF	OFF	Parallel

5.2.2.8.PRICE OF PLAY SETTINGS FOR SWITZERLAND (SFr = Swiss Franc)

Parallel 4 Coin Validator

1	2	3	4
5	2	1	

C220 Binary Mode Validator

1	2	3	4	5	6	7	8
5	2	1					

C120 Validator

1	2	3	4	5	6
5	2	1			

DIL Switch 2 Settings

Mode	4	3	2	1
Direct Mode	OFF	ON	ON	ON
2 Channel Mode	ON	ON	ON	ON

DIL Switch 1 Settings

Per Game	Bonus	5	4	3	2	1
1 SFr						
1 SFr	6 for 5 SFr					ON
2 SFr					ON	
2 SFr	3 for 5 SFr				ON	ON
3 SFr				ON		
3 SFr	2 for 5 SFr			ON		ON
4 SFr				ON	ON	
4 SFr	3 for 10 SFr			ON	ON	ON
5 SFr			ON			
5 SFr	5 for 20 SFr		ON			ON
6 SFr			ON		ON	
6 SFr	2 for 10 SFr		ON		ON	ON
8 SFr			ON	ON		
8 SFr	3 for 20 SFr		ON	ON		ON
10 SFr			ON	ON	ON	
10 SFr	3 for 20 SFr		ON	ON	ON	ON
12 SFr		ON				
15 SFr		ON				ON
20 SFr		ON			ON	
25 SFr		ON			ON	ON
30 SFr		ON		ON		
35 SFr		ON		ON		ON
40 SFr		ON		ON	ON	
45 SFr		ON		ON	ON	ON
50 SFr		ON	ON			
Free Play		ON	ON	ON	ON	ON

*Coin Mech Mode
DIL Switch 1*

6	7	8	
n/u	ON	ON	Binary
n/u	OFF	OFF	Parallel

5.2.3. INTRODUCTION

Game credits between the Coin Mechanism and the game board for this machine are controlled by a VTS 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 (DIL) PCB mounted switches.

SW1 is used to set the currency (or coin ratio) and SW3 the price of play. Refer to the Tables on the following pages for the correct settings for your environment.

The VTS board pictured below is mounted in the Coin Chute Tower.

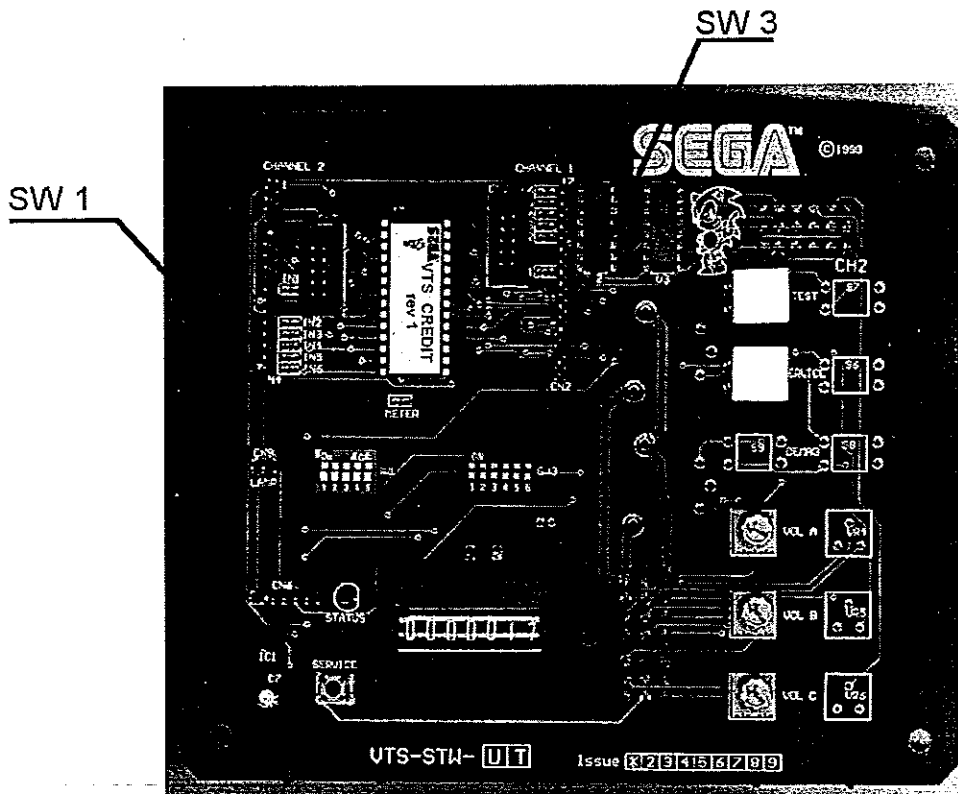
The VTS board is connected to the coin validator and lamps via a dedicated wiring harness depending upon the coin validator used:

Wiring Harness	Validator	
LM1006	Coin Controls	(15 way connector)
LM1007	Mars	(13 way connector)
LM1008	Mechanical	See note 2
N/A	NRI	See note 1

Notes

1. If NRI mechanisms 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 VTS board should be then be set up for either the UK or Switzerland settings. A minimum connecting lead length of 600mm is required.
2. Mechanical coin mechanisms may be connected in parallel allowing two identical mechanisms to be fitted.

The VTS Board



5.2.4. VTS BOARD OPTION SETTINGS

Country	Setting	Credit Board Mode Settings Switch 3																	
		Switch 3 Setting					Coin Validator Programming												
		SW1	SW2	SW3	SW4	SW5	SW6	COIN1	COIN2	COIN3	COIN4	COIN5	COIN6	COIN7	COIN8	COIN9	COIN10	COIN11	COIN12
UK	Coin Controls C220 Parallel	OFF	OFF	OFF	OFF		£1	50p new	20p	10p	-	50p old	-	-	-	-	-	-	-
UK	Coin Controls C220 Binary	ON	OFF	OFF	OFF		£1	50p new	20p	10p	-	50p old	-	£2	-	-	-	-	-
UK	Coin Controls C220 Binary	OFF	ON	OFF	OFF		£1	50p new	20p	20p	-	£2	-	50p old	-	-	-	-	-
UK	Coin Controls C120 Parallel	ON	ON	OFF	OFF		£1	50p new	20p	10p	-	£2	-	50p old	-	-	-	-	-
UK	Coin Controls C120 Parallel	OFF	OFF	ON	OFF		£2	£1	50p new	20p	10p	-	-	-	50p old	-	-	-	-
UK	Mars ME/MS 111 Parallel	ON	OFF	ON	OFF		£1	£2	20p	10p	50p new	50p old	-	-	-	-	-	-	-
UK	NRI Parallel	OFF	ON	ON	OFF		10p	20p	50p	£1	£2	-	-	-	-	-	-	-	-
Belgium	Parallel	ON	ON	ON	OFF		-	50BFr	20BFr	5BFr	-	-	-	-	-	-	-	-	-
Holland	Parallel	OFF	OFF	OFF	ON		-	5NLG	2.5NLG	1NLG	-	-	-	-	-	-	-	-	-
Austria	Parallel	ON	OFF	OFF	ON		20Sch	10Sch	5Sch	1Sch	-	-	-	-	-	-	-	-	-
Spain	Coin Controls C220 Binary	OFF	ON	OFF	ON		500Pta	200Pta new	100Pta	50Pta new	25Pta new	200Pt old	50Pta old	25Pta old	25Pta old	25Pta old	25Pta old	25Pta old	-
Spain	C120/NRI Parallel	ON	ON	OFF	ON		500Pta	200Pta old	100Pta	50Pta old	25Pta old	-	-	200Pta old	-	50Pta old	25Pta old	-	-
Spain	Coin Controls C220 Parallel	OFF	OFF	ON	ON		100Pta	50Pta new	-	25Pta new	-	50Pta old	-	25Pta old	-	-	-	-	-
Portugal	Parallel	ON	OFF	ON	ON		200Es	100Es	50Es	-	-	-	-	-	-	-	-	-	-
	TBA				OFF		TBA												
	Channels						TBA												
							OFF. Direct Mode												
							ON. 2 channel Mode												

Please Note
The credit board automatically sets the validator for parallel and binary operation through an output on pin 8 of the 17 way pinstrip. For the feature to work it is necessary for the validator interconnecting cable to include at wire at this position

Note: These switch settings are under constant review and may change due to world currency updates.

- Set SW 1 according to the option settings found in the relevant Price of Play Settings Table on the following pages.
- For Germany (DM), France (Fr) & Switzerland (SFr), use the appropriate existing setting shown above (from another country) that matches the coin ratios programmed into your coin m
- Set SW 3 on the VTS board as shown in the table above corresponding to the country required.

5.2.4.1. PRICE OF PLAY SETTINGS UK

	Price	Bonus			DIL Switch 1				
					Switch 1	Switch 2	Switch 3	Switch 4	Switch 5
1	10p	No Bonus			OFF	OFF	OFF	OFF	OFF
2	10p	6 = 50p			ON	OFF	OFF	OFF	OFF
3	20p	No Bonus			OFF	ON	OFF	OFF	OFF
4	20p	3 = 50p	6 = £1	12 = £2	ON	ON	OFF	OFF	OFF
5	30p	No Bonus			OFF	OFF	ON	OFF	OFF
6	30p	1.66 = 50p	4 = £1	8 = £2	ON	OFF	ON	OFF	OFF
7	30p	2 = 50p	4 = £1		OFF	ON	ON	OFF	OFF
8	30p	AMLD *	3 = £1	6 = £2	ON	ON	ON	OFF	OFF
9	40p	No Bonus			OFF	OFF	OFF	ON	OFF
10	40p	1.25 = 50p	3 = £1	6 = £2	ON	OFF	OFF	ON	OFF
11	50p	No Bonus			OFF	ON	OFF	ON	OFF
12	50p		3 = £1	6 = £2	ON	ON	OFF	ON	OFF
13	50p		2 = £1	5 = £2	OFF	OFF	ON	ON	OFF
14	60p	No Bonus			ON	OFF	ON	ON	OFF
15	60p		2 = £1	4 = £2	OFF	ON	ON	ON	OFF
16	80p	No Bonus			ON	ON	ON	ON	OFF
17	80p	1.25 = £1	2 = £1.50	2.5 = £2	OFF	OFF	OFF	OFF	ON
18	£1	No Bonus			ON	OFF	OFF	OFF	ON
19	£1		3 = £2		OFF	ON	OFF	OFF	ON
20	£1		2 = £2	5 = £4	ON	ON	OFF	OFF	ON
21	£1.50	No Bonus			OFF	OFF	ON	OFF	ON
22	£1.50		2 = £2		ON	OFF	ON	OFF	ON
23	£2	No Bonus			OFF	ON	ON	OFF	ON
24	£2			3 = £5	ON	ON	ON	OFF	ON
25	£3	No Bonus			OFF	OFF	OFF	ON	ON
26	£3			2 = £5	ON	OFF	OFF	ON	ON
27	£5	No Bonus			OFF	ON	OFF	ON	ON
28	£5			3 = £10	ON	ON	OFF	ON	ON
29	£7.50	No Bonus			OFF	OFF	ON	ON	ON
30	£7.50			2 = £10	ON	OFF	ON	ON	ON
31	£10	No Bonus			OFF	ON	ON	ON	ON
32	Free Play				ON	ON	ON	ON	ON

**5.2.4.2.PRICE OF PLAY SETTINGS Austria-Czech-Denmark-
Norway-Israel-France2**

	Price	Bonus			Switch 1				
					Switch 1	Switch 2	Switch 3	Switch 4	Switch 5
1	1	No Bonus			OFF	OFF	OFF	OFF	OFF
2	1			11 = 10	ON	OFF	OFF	OFF	OFF
3	1		6 = 5		OFF	ON	OFF	OFF	OFF
4	2	No Bonus			ON	ON	OFF	OFF	OFF
5	2			6 = 10	OFF	OFF	ON	OFF	OFF
6	2		3 = 5		ON	OFF	ON	OFF	OFF
7	3	No Bonus			OFF	ON	ON	OFF	OFF
8	3			4 = 10	ON	ON	ON	OFF	OFF
9	3		2 = 5		OFF	OFF	OFF	ON	OFF
10	4	No Bonus			ON	OFF	OFF	ON	OFF
11	4		3 = 10		OFF	ON	OFF	ON	OFF
12	5	No Bonus			ON	ON	OFF	ON	OFF
13	5			3 = 10	OFF	OFF	ON	ON	OFF
14	6	No Bonus			ON	OFF	ON	ON	OFF
15	6			4 = 20	OFF	ON	ON	ON	OFF
16	8	No Bonus			ON	ON	ON	ON	OFF
17	10	No Bonus			OFF	OFF	OFF	OFF	ON
18	10			3 = 20	ON	OFF	OFF	OFF	ON
19	20	No Bonus			OFF	ON	OFF	OFF	ON
20	20			3 = 50	ON	ON	OFF	OFF	ON
21	30	No Bonus			OFF	OFF	ON	OFF	ON
22	30			2 = 50	ON	OFF	ON	OFF	ON
23	50	No Bonus			OFF	ON	ON	OFF	ON
24	50			3 = 100	ON	ON	ON	OFF	ON
32	Free Play				ON	ON	ON	ON	ON

5.2.4.3.PRICE OF PLAY SETTINGS - BELGIUM

	Price	Bonus			DIL Switch 1				
					Switch 1	Switch 2	Switch 3	Switch 4	Switch 5
1	5BFr	No Bonus			OFF	OFF	OFF	OFF	OFF
2	5BFr			11 = 50BFr	ON	OFF	OFF	OFF	OFF
3	5BFr		5 = 20BFr		OFF	ON	OFF	OFF	OFF
4	10BFr	No Bonus			ON	ON	OFF	OFF	OFF
5	10BFr			6 = 50BFr	OFF	OFF	ON	OFF	OFF
6	10BFr		3 = 20BFr		ON	OFF	ON	OFF	OFF
7	15BFr	No Bonus			OFF	ON	ON	OFF	OFF
8	15BFr			4 = 50BFr	ON	ON	ON	OFF	OFF
9	15BFr		7 = 100BFr		OFF	OFF	OFF	ON	OFF
10	20BFr	No Bonus			ON	OFF	OFF	ON	OFF
11	20BFr			3 = 50BFr	OFF	ON	OFF	ON	OFF
12	20BFr		3 = 50BFr		ON	ON	OFF	ON	OFF
13	25BFr	No Bonus			OFF	OFF	ON	ON	OFF
14	25BFr			5=100BFr	ON	OFF	ON	ON	OFF
15	25BFr		3 = 50BFr		OFF	ON	ON	ON	OFF
16	30BFr	No Bonus			ON	ON	ON	ON	OFF
17	30BFr			4=100BFr	OFF	OFF	OFF	OFF	ON
18	30BFr		2=50BFr		ON	OFF	OFF	OFF	ON
19	40BFr	No Bonus			OFF	ON	OFF	OFF	ON
20	40BFr			3=100BFr	ON	ON	OFF	OFF	ON
21	50BFr	No Bonus			OFF	OFF	ON	OFF	ON
22	50BFr			3=100BFr	ON	OFF	ON	OFF	ON
23					OFF	ON	ON	OFF	ON
24					ON	ON	ON	OFF	ON
25					OFF	OFF	OFF	ON	ON
26					ON	OFF	OFF	ON	ON
27					OFF	ON	OFF	ON	ON
28					ON	ON	OFF	ON	ON
29					OFF	OFF	ON	ON	ON
30					ON	OFF	ON	ON	ON
31					OFF	ON	ON	ON	ON
32	Free Play				ON	ON	ON	ON	ON

5.2.4.4. PRICE OF PLAY SETTINGS - FRANCE

	Price	Bonus			DIL Switch 1				
					Switch 1	Switch 2	Switch 3	Switch 4	Switch 5
1	1Fr	No Bonus			OFF	OFF	OFF	OFF	OFF
2	1Fr	6 = 5Fr			ON	OFF	OFF	OFF	OFF
3	2Fr	No Bonus			OFF	ON	OFF	OFF	OFF
4	2Fr	3 = 5Fr	6 = 10Fr	12 = 20Fr	ON	ON	OFF	OFF	OFF
5	3Fr	No Bonus			OFF	OFF	ON	OFF	OFF
6	3Fr	1.66 = 5Fr	4 = 10Fr	8 = 20Fr	ON	OFF	ON	OFF	OFF
7	3Fr	2 = 5Fr	4 = 10Fr		OFF	ON	ON	OFF	OFF
8	3Fr	**	3 = 10Fr	6 = 20Fr	ON	ON	ON	OFF	OFF
9	4Fr	No Bonus			OFF	OFF	OFF	ON	OFF
10	4Fr	1.25 = 5Fr	3 = 10Fr	6 = 20Fr	ON	OFF	OFF	ON	OFF
11	5Fr	No Bonus			OFF	ON	OFF	ON	OFF
12	5Fr		3 = 10Fr	6 = 20Fr	ON	ON	OFF	ON	OFF
13	5Fr		2 = 10Fr	5 = 20Fr	OFF	OFF	ON	ON	OFF
14	6Fr	No Bonus			ON	OFF	ON	ON	OFF
15	6Fr		2 = 10Fr	4 = 20Fr	OFF	ON	ON	ON	OFF
16	8Fr	No Bonus			ON	ON	ON	ON	OFF
17	8Fr	1.25 = 10Fr	2 = 15Fr	2.5 = 20Fr	OFF	OFF	OFF	OFF	ON
18	10Fr	No Bonus			ON	OFF	OFF	OFF	ON
19	10Fr		3 = 20Fr		OFF	ON	OFF	OFF	ON
20	10Fr		2 = 20Fr	5 = 40Fr	ON	ON	OFF	OFF	ON
21	15Fr	No Bonus			OFF	OFF	ON	OFF	ON
22	15Fr		2 = 20Fr		ON	OFF	ON	OFF	ON
23	20Fr	No Bonus			OFF	ON	ON	OFF	ON
24	20Fr			3 = 50Fr	ON	ON	ON	OFF	ON
25	30Fr	No Bonus			OFF	OFF	OFF	ON	ON
26	30Fr			2 = 50Fr	ON	OFF	OFF	ON	ON
27	50Fr	No Bonus			OFF	ON	OFF	ON	ON
28	50Fr			3 = 100Fr	ON	ON	OFF	ON	ON
29	75Fr	No Bonus			OFF	OFF	ON	ON	ON
30	75Fr			2 = 100Fr	ON	OFF	ON	ON	ON
31	100Fr	No Bonus			OFF	ON	ON	ON	ON
32	Free Play				ON	ON	ON	ON	ON

** This is a special setting which gives no credit until a total of 10Fr is input and then gives three games.

5.2.4.5.PRICE OF PLAY SETTINGS - ITALY

	Price	Bonus			DIL Switch 1				
					Switch 1	Switch 2	Switch 3	Switch 4	Switch 5
1					OFF	OFF	OFF	OFF	OFF
2					ON	OFF	OFF	OFF	OFF
3					OFF	ON	OFF	OFF	OFF
4					ON	ON	OFF	OFF	OFF
5					OFF	OFF	ON	OFF	OFF
6					ON	OFF	ON	OFF	OFF
7					OFF	ON	ON	OFF	OFF
8					ON	ON	ON	OFF	OFF
9					OFF	OFF	OFF	ON	OFF
10	100L	No Bonus			ON	OFF	OFF	ON	OFF
11	100L			6 = 500L	OFF	ON	OFF	ON	OFF
12	100L		3 = 200L		ON	ON	OFF	ON	OFF
13	200L	No Bonus			OFF	OFF	ON	ON	OFF
14	200L			3 = 500L	ON	OFF	ON	ON	OFF
15	200L		3 = 400L		OFF	ON	ON	ON	OFF
16	300L	No Bonus			ON	ON	ON	ON	OFF
17	300L			2 = 500L	OFF	OFF	OFF	OFF	ON
18	300L		3 = 600L		ON	OFF	OFF	OFF	ON
19	400L	No Bonus			OFF	ON	OFF	OFF	ON
20	400L			3 = 1000L	ON	ON	OFF	OFF	ON
21	400L		3 = 800L		OFF	OFF	ON	OFF	ON
22	500L	No Bonus			ON	OFF	ON	OFF	ON
23	500L		3 = 1000L		OFF	ON	ON	OFF	ON
24	500L			5 = 2000L	ON	ON	ON	OFF	ON
25	600L	No Bonus			OFF	OFF	OFF	ON	ON
26	600L		3 = 1200L		ON	OFF	OFF	ON	ON
27	600L			4 = 2000L	OFF	ON	OFF	ON	ON
28	800L	No Bonus			ON	ON	OFF	ON	ON
29	800L		2 = 1000L		OFF	OFF	ON	ON	ON
30	1000L	No Bonus			ON	OFF	ON	ON	ON
31	1000L		2 = 1500L		OFF	ON	ON	ON	ON
32	Free Play				ON	ON	ON	ON	ON

5.2.4.6.PRICE OF PLAY SETTINGS - PORTUGAL

	Price	Bonus			DIL Switch 1				
					Switch 1	Switch 2	Switch 3	Switch 4	Switch 5
1	50Esc	No Bonus			OFF	OFF	OFF	OFF	OFF
2	50Esc			5 = 200Esc	ON	OFF	OFF	OFF	OFF
3	50Esc		3=100Esc		OFF	ON	OFF	OFF	OFF
4	100Esc	No Bonus			ON	ON	OFF	OFF	OFF
5	100Esc			5 = 400Esc	OFF	OFF	ON	OFF	OFF
6	100Esc		3 = 200Esc		ON	OFF	ON	OFF	OFF
7	150Esc	No Bonus			OFF	ON	ON	OFF	OFF
8	150Esc			3 = 400Esc	ON	ON	ON	OFF	OFF
9	200Esc	No Bonus			OFF	OFF	OFF	ON	OFF
10	200Esc			6 = 1000Esc	ON	OFF	OFF	ON	OFF
11	200Esc		4 = 600Esc		OFF	ON	OFF	ON	OFF
12	250 Esc	No Bonus			ON	ON	OFF	ON	OFF
13	250 Esc		3 = 500Esc		OFF	OFF	ON	ON	OFF
14	300 Esc	No Bonus			ON	OFF	ON	ON	OFF
15	300 Esc			4 = 1000Esc	OFF	ON	ON	ON	OFF
16	400 Esc	No Bonus			ON	ON	ON	ON	OFF
17	400 Esc			3 = 1000Esc	OFF	OFF	OFF	OFF	ON
32	Free Play				ON	ON	ON	ON	ON

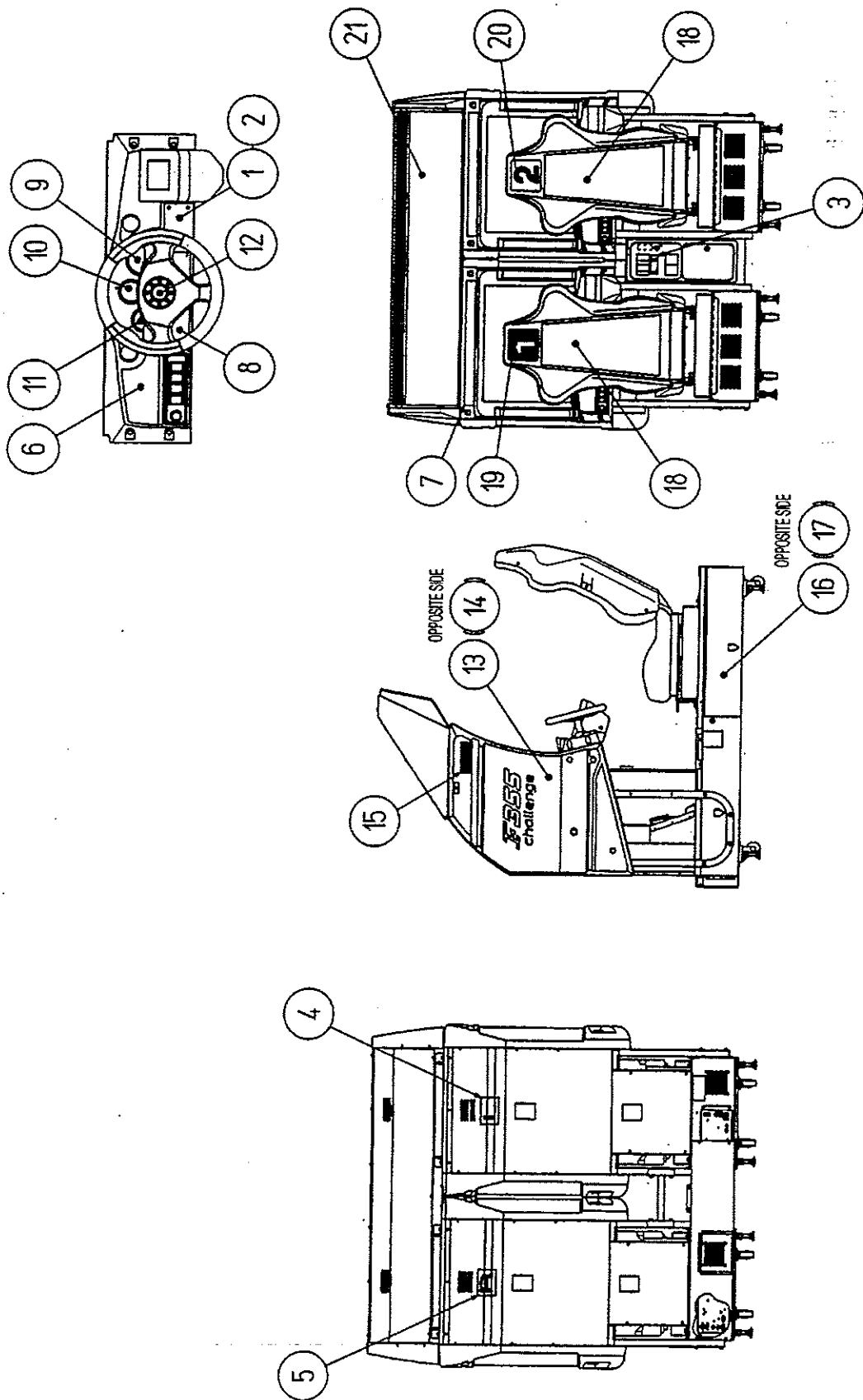
5.2.4.7.PRICE OF PLAY SETTINGS - NETHERLANDS

	Price	Bonus		DIL Switch 1				
				Switch 1	Switch 2	Switch 3	Switch 4	Switch 5
1	1G	No Bonus		OFF	OFF	OFF	OFF	OFF
2	1G		2.5NLG = 2	ON	OFF	OFF	OFF	OFF
3	2G	No Bonus		OFF	ON	OFF	OFF	OFF
4	2G		5NLG = 3	ON	ON	OFF	OFF	OFF
5	3G	No Bonus		OFF	OFF	ON	OFF	OFF
6	3G		5NLG = 2	ON	OFF	ON	OFF	OFF
7	4G	No Bonus		OFF	ON	ON	OFF	OFF
8	4G		10NLG = 3	ON	ON	ON	OFF	OFF
9	5G	No Bonus		OFF	OFF	OFF	ON	OFF
10	5G		10NLG = 3	ON	OFF	OFF	ON	OFF
11	6G	No Bonus		OFF	ON	OFF	ON	OFF
12	6G		15NLG = 3	ON	ON	OFF	ON	OFF
13	8G	No Bonus		OFF	OFF	ON	ON	OFF
14	8G		20NLG = 3	ON	OFF	ON	ON	OFF
15	10G	No Bonus		OFF	ON	ON	ON	OFF
16	10G		20NLG = 3	ON	ON	ON	ON	OFF
17	15G		30NLG = 3	OFF	OFF	OFF	OFF	ON
18	15G	No Bonus		ON	OFF	OFF	OFF	ON
19	20G	No Bonus		OFF	ON	OFF	OFF	ON
32	Free Play			ON	ON	ON	ON	ON

5.2.4.8.PRICE OF PLAY SETTINGS - SPAIN

	Price	Bonus			DIL Switch 1				
					Switch 1	Switch 2	Switch 3	Switch 4	Switch 5
1	25Pta	No Bonus			OFF	OFF	OFF	OFF	OFF
2	25Pta			5=100Pta	ON	OFF	OFF	OFF	OFF
3	25Pta		3=50Pta		OFF	ON	OFF	OFF	OFF
4	50Pta	No Bonus			ON	ON	OFF	OFF	OFF
5	50Pta			3=100Pta	OFF	OFF	ON	OFF	OFF
6	50Pta		4=150Pta		ON	OFF	ON	OFF	OFF
7	75Pta	No Bonus			OFF	ON	ON	OFF	OFF
8	75Pta			3=200Pta	ON	ON	ON	OFF	OFF
9	75Pta		3=200Pta		OFF	OFF	OFF	ON	OFF
10	100Pta	No Bonus			ON	OFF	OFF	ON	OFF
11	100Pta			4=300Pta	OFF	ON	OFF	ON	OFF
12	100Pta		3=200Pta		ON	ON	OFF	ON	OFF
13	200Pta	No Bonus			OFF	OFF	ON	ON	OFF
14	200Pta			3=500Pta	ON	OFF	ON	ON	OFF
15	200Pta		3=400Pta		OFF	ON	ON	ON	OFF
16	300Pta	No Bonus			ON	ON	ON	ON	OFF
17	300Pta			2=500Pta	OFF	OFF	OFF	OFF	ON
18	300Pta		3=600Pta		ON	OFF	OFF	OFF	ON
19	400Pta	No Bonus			OFF	ON	OFF	OFF	ON
20	400Pta			3=1000Pta	ON	ON	OFF	OFF	ON
21	400Pta		3=800Pta		OFF	OFF	ON	OFF	ON
22	500Pta	No Bonus			ON	OFF	ON	OFF	ON
23	500Pta			3=1000Pta	OFF	ON	ON	OFF	ON
24	500Pta		2=800Pta		ON	ON	ON	OFF	ON
25	600Pta	No Bonus			OFF	OFF	OFF	ON	ON
26	600Pta			3=1200Pta	ON	OFF	OFF	ON	ON
27	600Pta		2=1000Pta		OFF	ON	OFF	ON	ON
28	800Pta	No Bonus			ON	ON	OFF	ON	ON
29	800Pta			2=1000Pta	OFF	OFF	ON	ON	ON
30	1000Pta	No Bonus			ON	OFF	ON	ON	ON
31	1000Pta			2=1500Pta	OFF	ON	ON	ON	ON
32	Free Play				ON	ON	ON	ON	ON

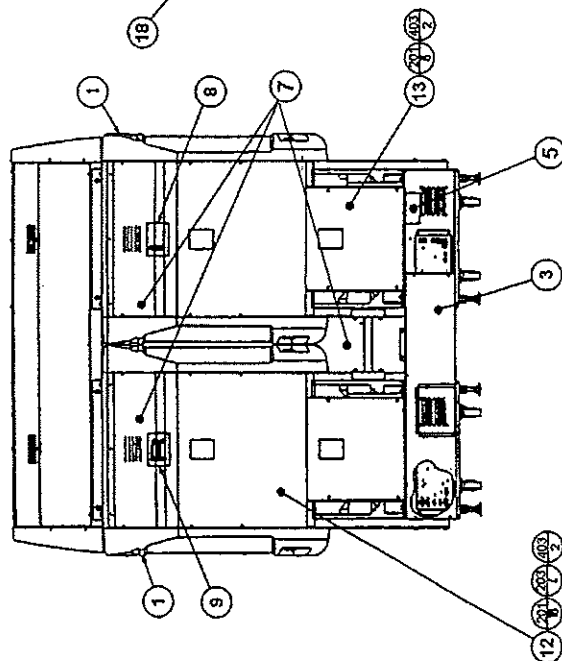
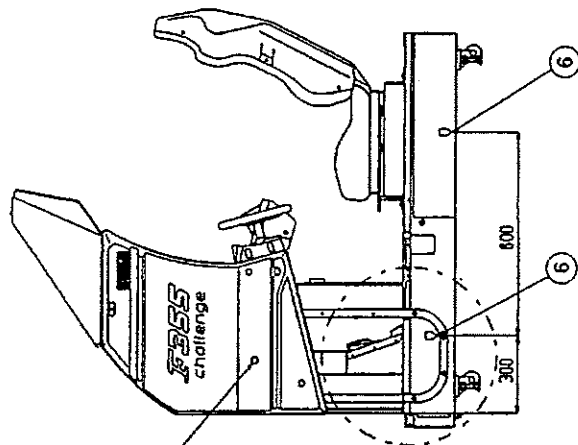
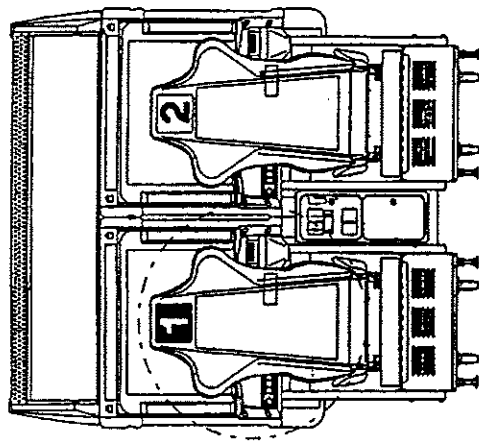
6. DESIGN RELATED PARTS



No.	Part No.	Description
1	DYN-0010UK	DENOMI PLATE
2	---	SPACE FOR DENOMI SHEET
3	---	COIN ENTRY PLATE
4	421-8543UK	STICKER CABINET L UK
5	421-8544UK	STICKER CABINET R UK
6	422-0787UK	PLAY INSTR SH FRI TWIN MULTI
7	422-0788UK	SUB INSTR SH FRI TWIN MULTI
8	SPG-1201-E	METER PANEL
9	DYN-1214-C	DESIGN PL TACO MTR TWIN
10	DYN-1214-D	DESIGN PL OIL MTR TWIN
11	DYN-1214-E	DESIGN PL WATER MTR TWIN
12	FRI-2002	STEERING EMBLEM FRI
13	FRI-1035-B	STICKER FRI TWIN SIDE L
14	FRI-1036-B	STICKER FRI TWIN SIDE R
15	421-9749-04	STICKER SEGA LOGO LUMI RED
16	FRI-1501-B	STICKER BASE FRI TWIN L
17	FRI-1501-C	STICKER BASE FRI TWIN R
18	FRI-1601-BUK	STICKER SEAT FRI TWIN
19	FRI-1601-C	STICKER NO.1 FRI TWIN
20	FRI-1601-D	STICKER NO.2 FRI TWIN
21	423-0337UK	BILLBOARD PLATE FRI TWIN
	421-11210	STICKER NO. OPTION FRI TWIN

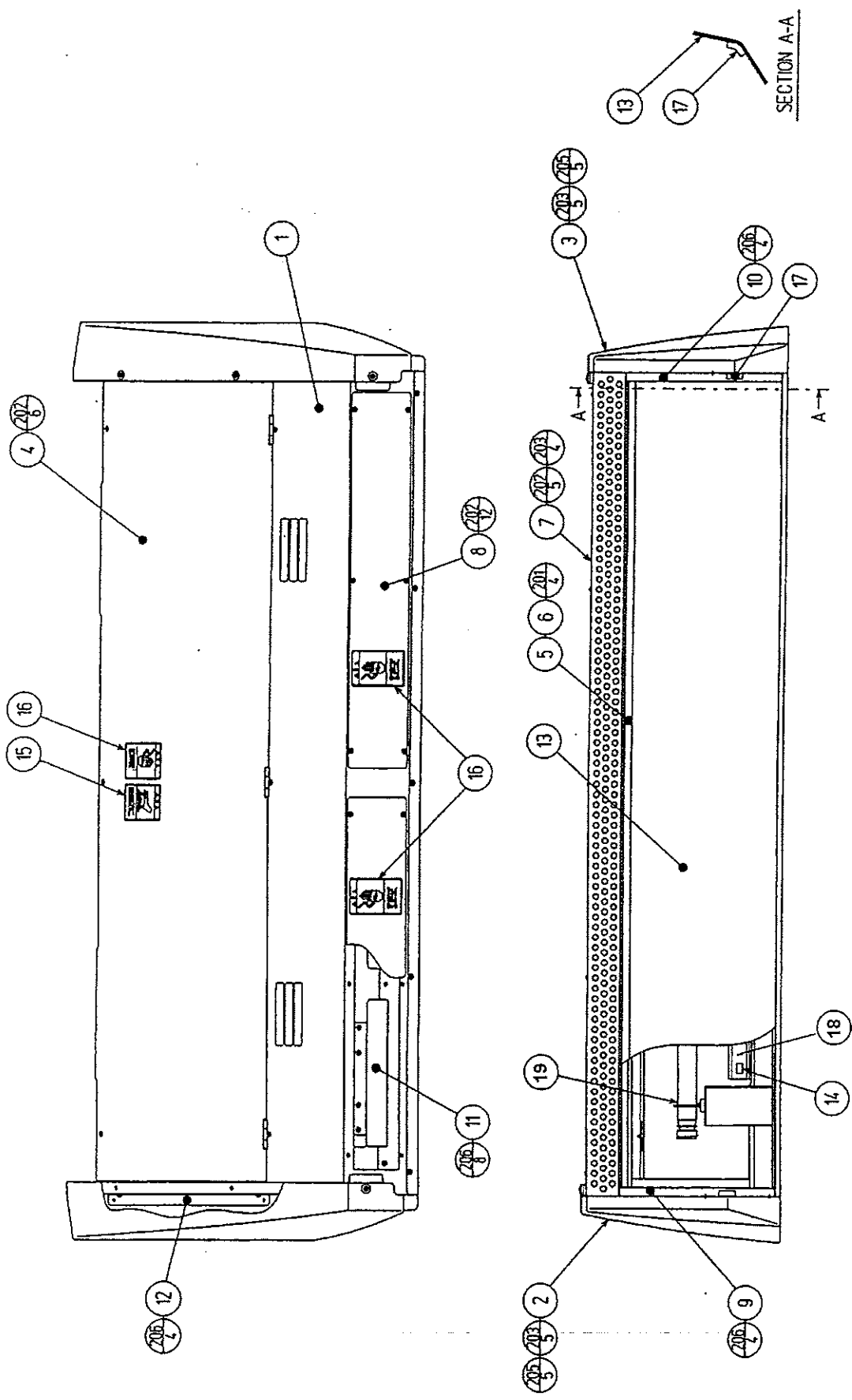
7. PARTS LIST

7.1. FRI-00001UK - TOP ASSY



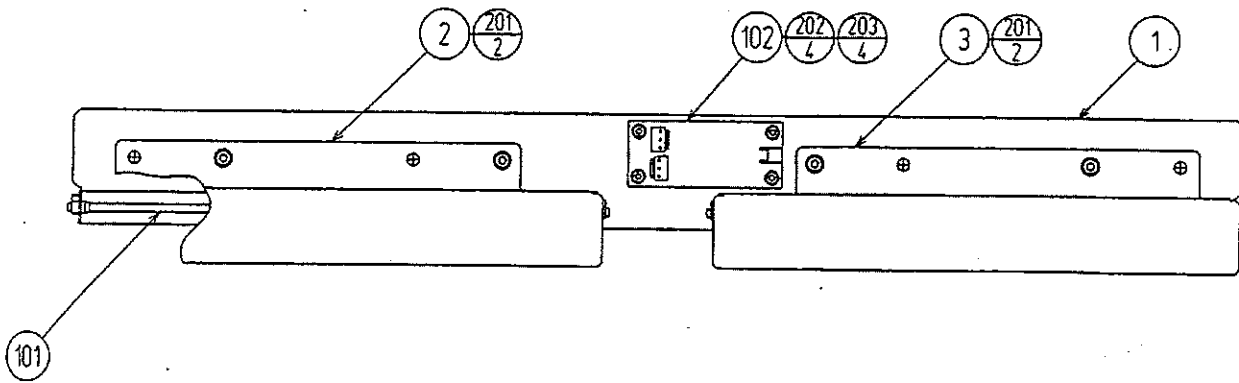
Indent	Part No.	Description	Component Ref	Qty
1	FRI-10001UK	ASSY COCKPIT NANA0 JPN		2
2	FRI-INST-TWIN	ASSY INST KIT TWIN NANA0		1
3	DRT-5000UK	ASSY AC UNITS DRT TWIN		1
4	FRI-6000UK	ASSY HANDING KIT FRI TWI		1
5	421-7987-FRI-T	STICKER ELEC SPEC DUT TW		1
6	421-7020UK	STICKER CAUTION FORK		4
7	421-7988-91UK	STICKER SERIAL NUMBER UK	COCKPIT L,R&CCT	3
8	421-8543UK	STICKER CABINET L UK	MAIN CABI ONLY	1
9	421-8544UK	STICKER CABINET R UK	SUB CABI ONLY	1
10	PK0037	BAG PLASTIC RALLY		2
11	PK0226	CARTON COCKPIT FRI TWIN		2
12	INY-0004	BACK LID INY		2
13	DYN-0008XUK	BACK LID B UK		2
14	PK0034	PALLET WOODEN RALLY		2
16	RAL-XXXX-13UK	LOCK COVER UK		2
17	SGM-2032	POLYETHYLENE CVR 750X140	FIT 1 PER SEAT BACK	2
18	SDW-0001UK	BLIND CAP UK	(1P LHS)-6, (2P RHS)-6	12
201	000-P00408-WB	M4X8 MSCR POSI PAN W/FS	(12)-9EA,(13)-4EA	26
202	020-B00620-OB	M6X20 SET SKT BH BNP	(REAR FLOORS)-2EA	4
203	FX0410	M4X12 TAPTITE POSI PAN P	(12)-2EA	4
204	008-T00412-OC	M4X12 MSCR TMP PRF CRM	(16)-4EA,(F FLOORS)-4EA	16
208	FX0398	M6 WSHR SPR BNP	(R. FLOOR)-2 EA	4
209	FX0413	M6 WSHR FORM A BNP	(R FLOOR)-2 EA	4
401	LB1046	LABEL TESTED FOR ELEC. S	(MAIN CABI)-1,(SUB CABI)-1	2
403	LB1102	STICKER DANGEROUS VOLTAG	(12)-2,(13)-2,REAR FLOORS-2	6

7.2. FRI-0200UK- ASSY BILLBOARD



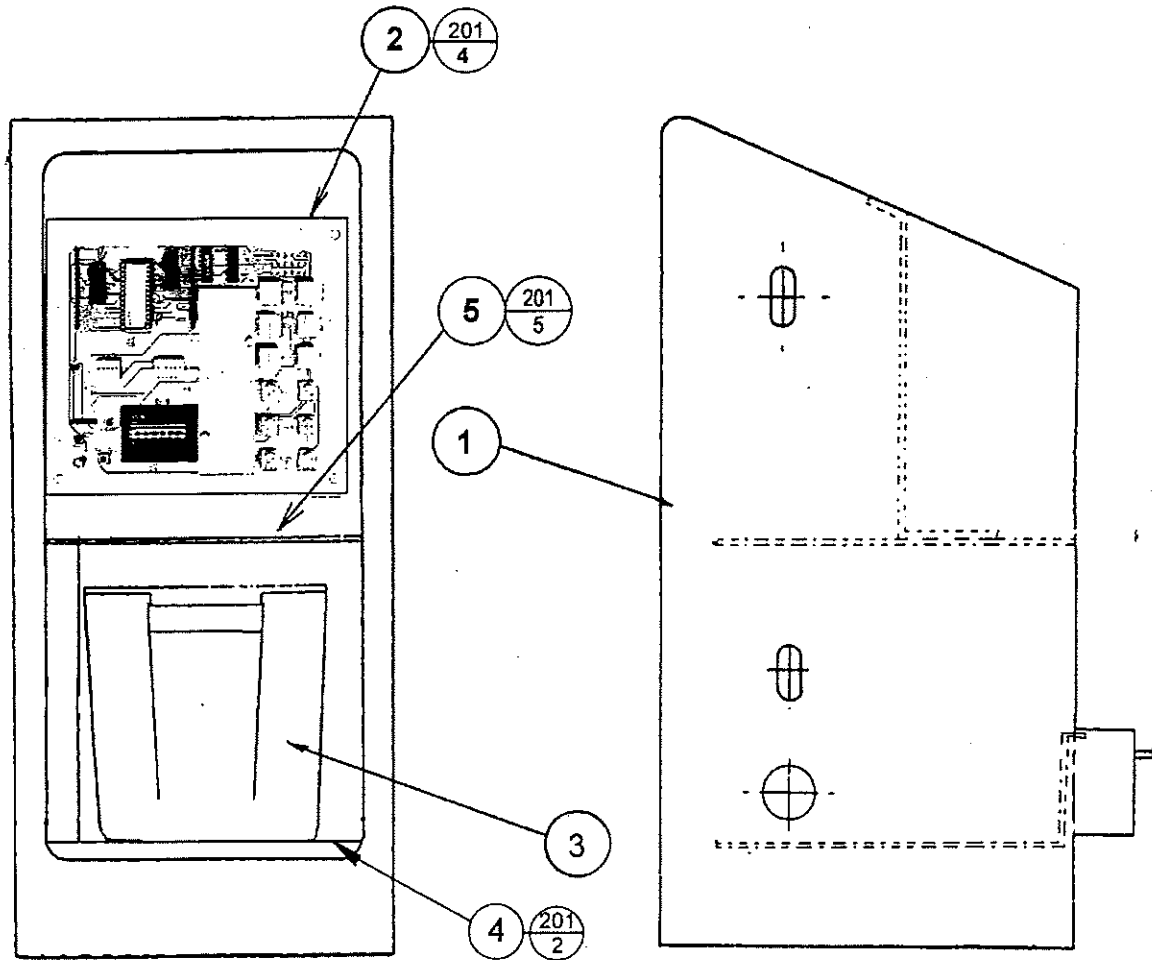
Indent #	Part No.	Description	Component Ref	Qty/Assy
1	FRI-0201UK	BILLBOARD BOX		1
2	FRI-0202	SIDE COVER L		1
3	FRI-0203	SIDE COVER R		1
4	FRI-0204UK	BILLBOARD LID		1
5	FRI-0205	UPPER SASH		1
6	FRI-0206	LIGHT PLATE		2
7	FRI-0207	UPPER COVER		1
8	FRI-0208	UPPER LID		2
9	FRI-0209	SASH SIDE L		1
10	FRI-0210	SASH SIDE R		1
11	FRI-0220	ASSY LIGHT		2
12	VOT-0208	SIDE COVER BRKT		2
13	423-0337UK	BILLBOARD PLATE FRI TWIN		1
14	421-7501-10	STICKER FL 40W		1
15	LB1104	STICKER CAUTION, HOT SUR		1
16	LB1102	STICKER DANGEROUS VOLTAG		3
17	FRI-0211	CUSHION SPONGE 40		2
18	390-5695-40-CUK	FL TRAY 110V 40W (T12)		1
19	390-5695-40-BUK	FL TUBE 40W 4' DIA 1.5"		1
201	FX0325	M4X12 MSCR POSI CSK BZP	(6)-4	4
202	000-T00408-OB	M4X8 MSCR POSI TH BNP	(4)-6,(7)-5,(8)-12	23
203	000-T00412-OB	M4X12 MSCR POSI PAN W/FS	(2)-5,(3)-5,(7)-4	
205	068-441616-OB	M4 WSHR 16OD FLT BNP	(2)-5,(3)-5,(4)-3	13
206	000-P00408-W	M4X8 MSCR POSI PAN W/FS	(9)-4,(10)-4,(11)-8,(12)-4	20
207	050-F00400	M4 NUT FLG	(101)-2,(EARTHS)-3	5
210	FX0021	M4X8 MSCR POSI PAN BZP	(102)-2	2
301	FRI-61064UK	WIRE HARN INVERTER		2
302	600-7064-031UK	WIRE HARN FL	600-7076-068UK	1
303	600-9020-44K	WIRE HARN EARTH 200mm M4	B/BD BOX- B/BD LID	1

7.3. FRI-0220 - ASSY LIGHT



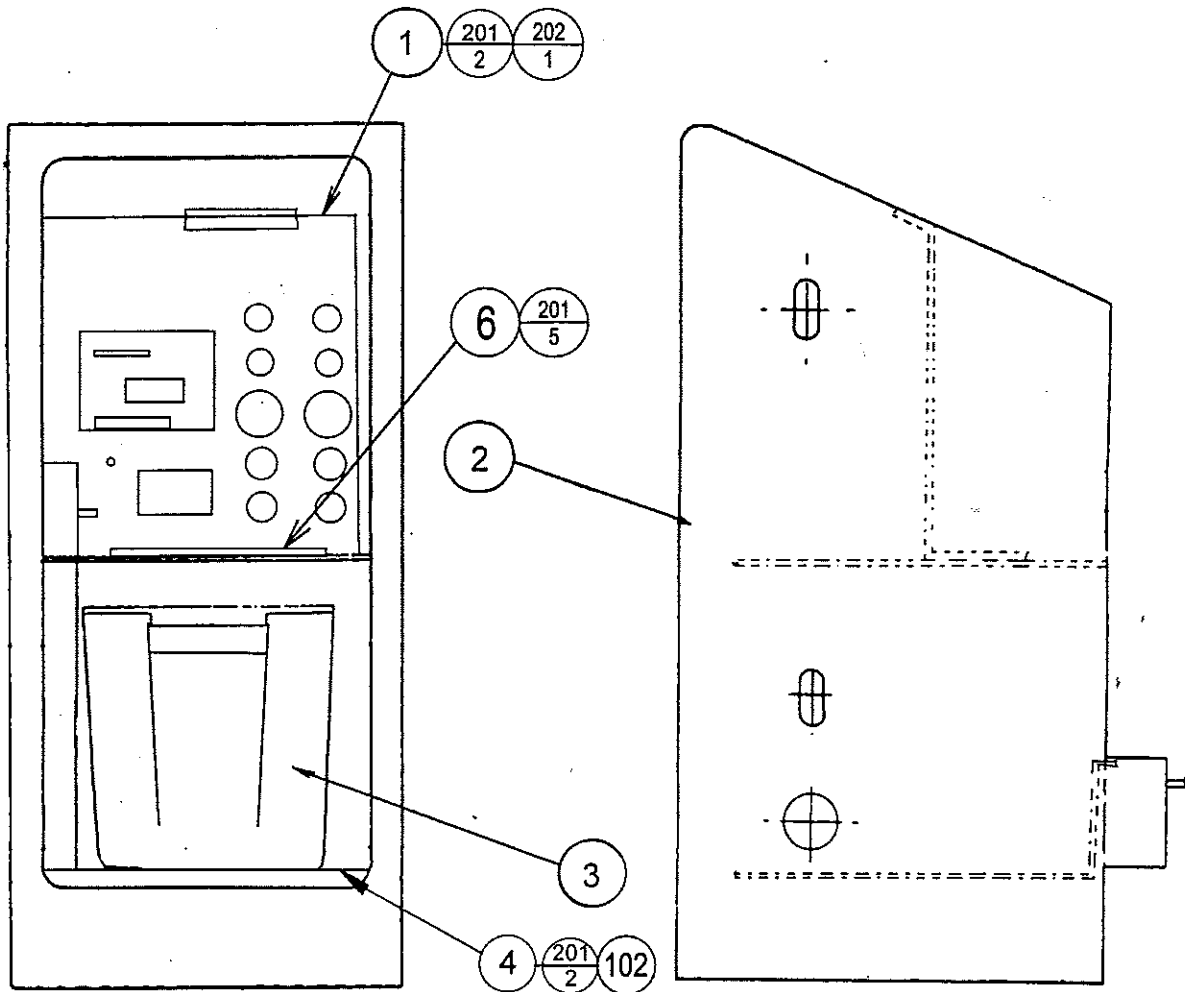
Indent	Part No.	Description	Component Ref	Qty
1	FRI-0221	HOLDER		1
2	FRI-0222	HOLDER PLATE A		1
3	FRI-0223	HOLDER PLATE B		1
101	390-5697-01	CATHODE TUBE PINK W/CONN		2
102	838-13038	CATHODE TUBE INVERTER 12		1
103	280-A00900-A	ROUTER TWIST D9 ADH		5
201	050-F00400	M4 NUT FLG	(2)-2,(3)-2	4
202	050-U00300	M3 NUT NYLOC BZP	(102)-4	4
203	060-F00300	M3 WSHR FORM A FLT BZP	(102)-4	4

7.4. FRI-0300UK-ASSY COINCHUTE TOWER



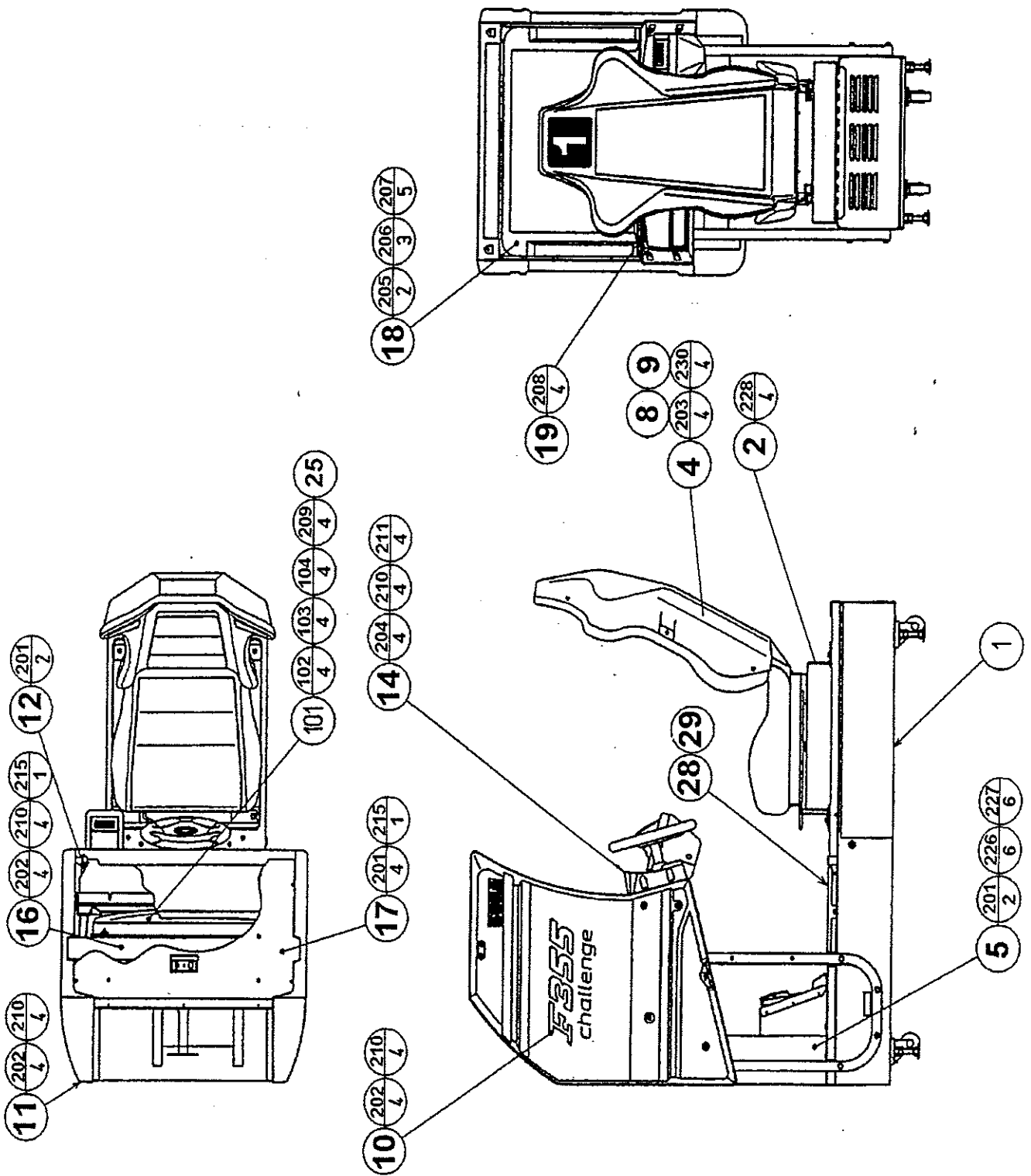
Indent #	Part No.	Description	Component Ref	Qty /assy
1	ECA-0301UK	COIN CHUTE TOWER ECA		1
2	VTS-FRI-T	VTS BOARD FRI TWIN		1
3	PP1087	BOX CASH FOR MINI DOOR		1
4	SRT-0302UK	CCT FLOOR TWIN		1
5	DUT-0302UK	COIN PATH PLATE	FIX TO TOP OF VAULT ROOF	1
201	000-P00410-W	M4X10 MSCR POSI PAN W/FS	(2)-4,(4)-2,(5)-5	11
301	FRI-61056UK	WIRE HARN VTS BOARD		1

7.4.1. DUT-0300UK-ASSY COINCHUTE TOWER



Indent #	Part No.	Description	Component Ref	Qty /assy
1	SRT-0350UK	ASSY VTS SRT TWIN UK		1
2	DUT-0301UK	COIN CHUTE TOWER		1
3	PP1087	BOX CASH FOR MINI DOOR		1
4	SRT-0302UK	CCT FLOOR TWIN		1
6	DUT-0302UK	COIN PATH PLATE	FIX TO TOP OF VAULT ROOF	1
101	280-A01200-A	ROUTER TWIST D12 ADH	FIT TO INSIDE LH OF (2)	1
102	LB1102	STICKER DANGEROUS VOLTAGE	ON TOP OF (4)	1
201	000-P00408-W	M4X8 MSCR POSI PAN W/FS PAS	(1)-2,(4)-2,(6)-5	9
202	050-F00400	M4 NUT FLG	(1)-1,(301)-1,(302)-1	3
301	LM9012	LOOM EARTH 200mm	COIN DOOR TO FRAME	1
302	LM9212	LOOM EARTH 400mm	FRAME TO CCT	1

7.5. FRI-10001UK- ASSY COCKPIT



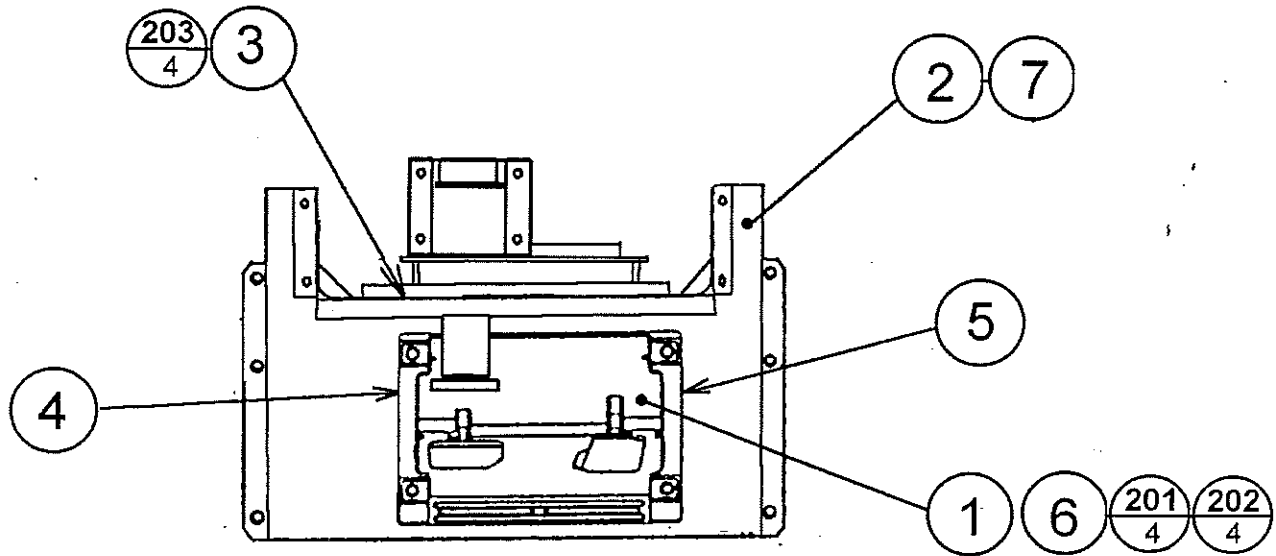
Indent	Part No.	Description	Component Ref	Qty
1	FRI-20001UK	ASSY MAIN BASE		1
2	FRI-1510UK	ASSY BASE LID R		1
4	FRI-1600UK	ASSY SEAT TWIN		1
5	FRI-1060UK	ASSY PEDAL & ABSORBER UN		1
5	DUT-1060UK	ASSY PEDAL BASE	ALTERNATIVE PART FOR ITEM 5	1
8	RAL-2007	RUBBER HOLDER R TWIN		1
9	RAL-2008	RUBBER HOLDER L TWIN		1
10	FRI-1035-AUK	COVER PANEL L BLANK		1
11	FRI-1036-AUK	COVER PANEL R BLANK		1
12	DYN-1032UK	MASK BRKT	(10)-1,(11)-1	2
14	FRI-12001UK	ASSY CONTROL PANEL UK		1
16	INY-1016UK	MONITOR SUPPORT UK		1
17	DUT-1008UK	ROOF LID DUT		1
18	TTR-1067X	MONITOR MASK FST		1
19	SPG-1005	MASK HOLDER		1
25	SRT-1009UK	MONITOR SPASHGUARD SRT T		1
26	OS1004	DRAFT EXCLDR 4 X7MM BLK	(18)-705mm X 1 (ON FRONT LIP)	0
28	DUT-2031UK	FRONT FLOOR UK DUT	FIX DOWN AT NEXT LEVEL UP	1
29	SRT-2031UK	NEOPRENE RUBBER STRIP 10	(28)-0.5,(1)-0.4 4X10cm STRIPS	0
101	200-5787	ASSY CLR DISP 29TYPE 31K		1
102	280-5112	BUSH FOR NANA0 MONITOR	(101)-4	4
103	280-5113	COLLAR FOR NANA0 MONITOR	(101)-4	4
104	FX0012	M6 WSHR 25OD FLT BZP	(101)-4	4
105	601-6231-C100	EDGING NEW TYPE	MAIN BASE-2,WIRE COVER-2	4
107	601-6231-D100	EDGING NEW TYPE	MONITOR FLANGE	1
109	LB1103	STICKER CAUTION	NEXT TO STEERING WHEEL GEARS	1
110	280-A01200-A	ROUTER TWIST D12 ADH		10
111	280-A02000-A	ROUTER TWIST D20 ADH		9
113	280-A01248-PM	ROUTER TWIST D12 SO4.8 P		12
114	280-A01548-PM	ROUTER TWIST D15 SO4.8 P		8
115	280-N01610-OB	SLIT HARN WRAP 16mm DIA	AROUND 100V WIRES (AC BRKT)	0
201	000-P00408-WB	M4X8 MSCR POSI PAN W/FS	(5)-2,(12)-2,(17)-4	8
202	030-000840-SB	M8X40 BLT W/S BNP	(10)-4,(11)-4,(16)-4	12
203	068-852216-OB	M8 WSHR 22OD FLT BNP	(4)-4	4
204	008-B00830-OB	M8X30 MSCR TMP PRF BH BN	(14)-6	6
205	000-T00530-OB	M5X30 MSCR POSI TH BNP	(18)-2	2
206	000-T00512-OB	M5X12 MSCR POSI TH BNP	(18)-3	3
207	FS1027	M5 WSHR 19OD FLT BNP	(18)-5	5
208	FX0437	M5X12 MSCR CSK POSI BZP	(19)-4	4
209	FX0013	M6 NUT FLG SER BZP	(101)-4	4
210	060-F00800-OB	M8 WSHR FORM A FLT BNP	(10)-4,(11)-4,(16)-4,(14)-6	18
211	FS1019	M8 WSHR SPR BNP	(14)-6	6
215	050-F00400	M4 NUT FLG	(16,17,STAND)-1EA,(BASE)-2	5
226	030-000616-SB	M6X16 BLT W/S BNP	(5)-6	6
227	FS1018	M6 WSHR FORM C FLT BNP	(5)-6	6
228	008-T00512-OB	M5X12 MSCR TMP PRF TH BN	(2)-4	4
229	000-P00412-WB	M4X12 MSCR POSI PAN W/FS	(AC UNITS)-4	4
230	030-000820-SB	M8X20 BLT W/S BNP	(4)-4	4

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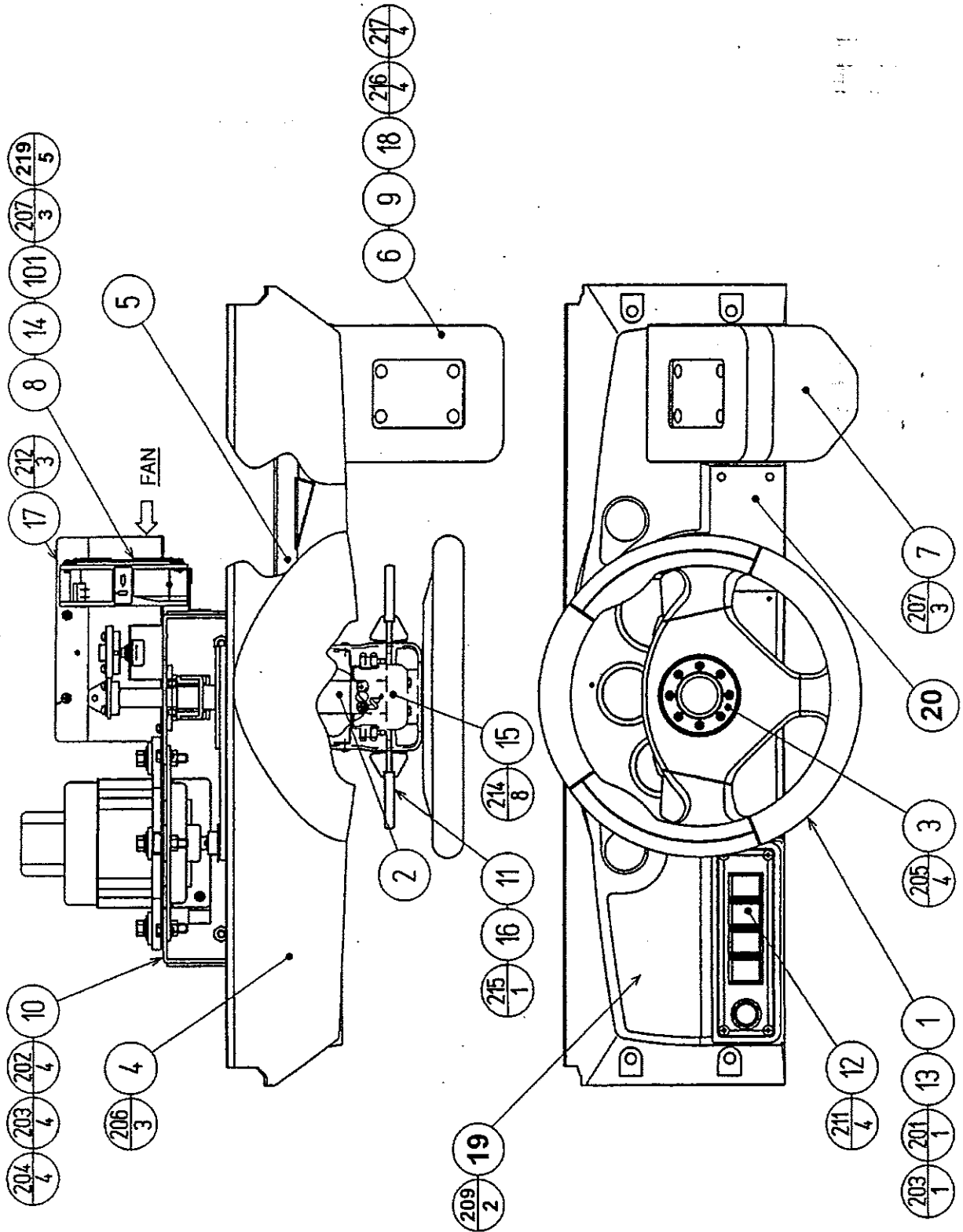
301	FRI-61042	WIRE HARN EXT VR B	ALT=600-6873-049	1
302	FRI-61043	WIRE HARN EXT EFFECT SW		1
303	600-7009-2500	ASSY RGB CA D-SUB 15P 25		1
304	FRI-61038	WIRE HARN EXT 100V C		1
305	FRI-61039UK	WIRE HARN EXT LEADER LAM		1
306	600-6373-77-91	WIRE HARNESS PLAYER SEL		1
307	LM9111	LOOM EARTH 300mm	ROOF- MON SUPPORT	1
308	600-9120-44K	WIRE HARN EARTH 1200mm M.	MON SUPPORT - MON STAND	1
309	LM9511	LOOM EARTH 750mm	MON STAND - MAIN BASE	1
310	FRI-61040UK	WIRE HARN EXT ENCODER B		1
311	600-6873-040	WIRE HARN EXT MOTOR A		1

7.6. FRI-1060UK- ASSY PEDAL & ABSORBER UNIT



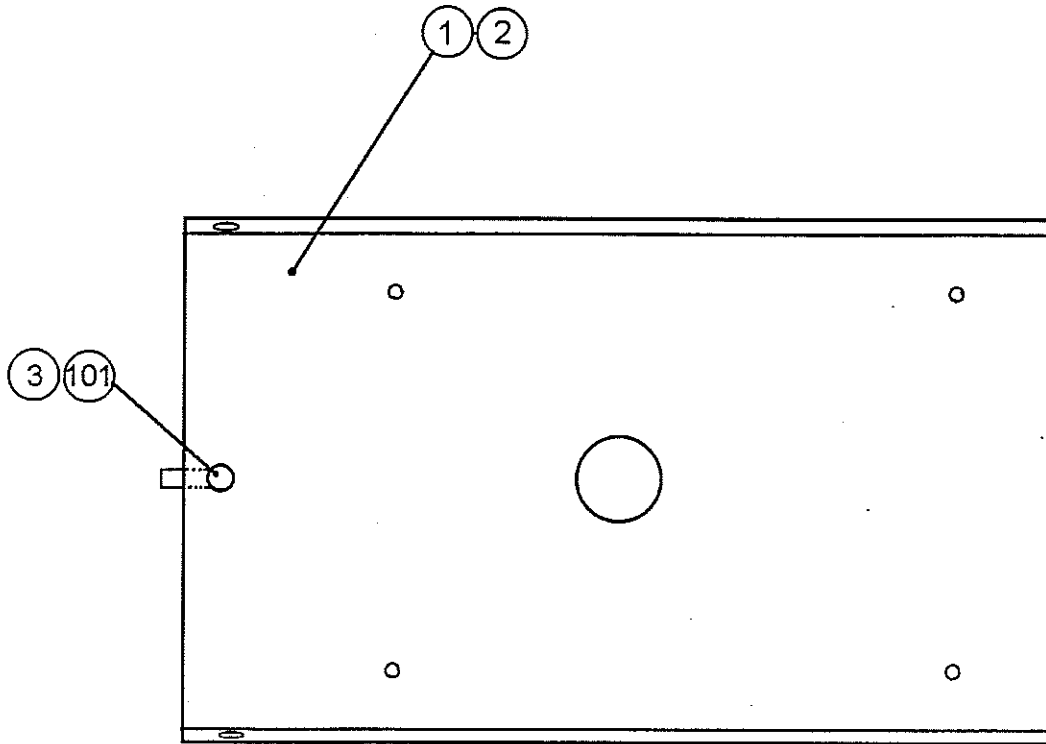
Indent	Part No.	Description	Component Ref	Qty
1	FRI-2250	ASSY BRAKE & ACCELL		1
1	SPG-2200	ASSY BRAKE & ACCELL	ALTERNATIVE PART FOR ITEM 1	1
2	FRI-1502UK	PEDAL BASE FRI		1
2	DUT-1502UK	PEDAL BASE DUT	ALTERNATIVE PART FOR ITEM 2	1
3	FRI-1025UK	WIRE COVER BOX		1
3	SRT-1002UK	WIRE COVER BOX	ALTERNATIVE PART FOR ITEM 3	
4	SPG-2222UK	ANTI FINGER TRAP PLATE LEFT		1
5	SPG-2223UK	ANTI FINGER TRAP PLATE RIGHT		1
6	SPG-2224UK	PEDAL GASKET		1
7	DUT-2017UK	NEOPRENE STRIP 10mmX5mm t	(2)-490mmX1 INSIDE FLANGE	0.49
8	FRI-2350	ABSORBER UNIT TWIN	NOT REQUIRED IF USING DUT-1060UK	1
103	OS1174	CABLE TIE, NYLON 100mm	TIE EARTH BACK TO WIRE HARNS	2
104	280-A01248-PM	ROUTER TWIST D12 SO4.8 P	(2)-1	1
201	030-000820-SB	M8X20 BLT W/S BNP	(1)-4,(8)-4	8
202	068-852216-OB	M8 WSHR 22OD FLT BNP	(1)-4,(8)-4	8
203	P00408-WB	M4X8 MSCR POSI PAN W/FS	(3)-4	4
204	050-F00400	M4 NUT FLG	EARTHS -2	2
301	600-9030-44K	WIRE HARN EARTH 300mm M4	PEDAL ASY-PEDAL BASE-MAINBASE	2
303	600-9010-44K	WIRE HARN EARTH 100mm M4	PEDAL BASE TO F. FLOOR TEMP	1

7.7. FRI-12001UK- ASSY CONTROL PANEL



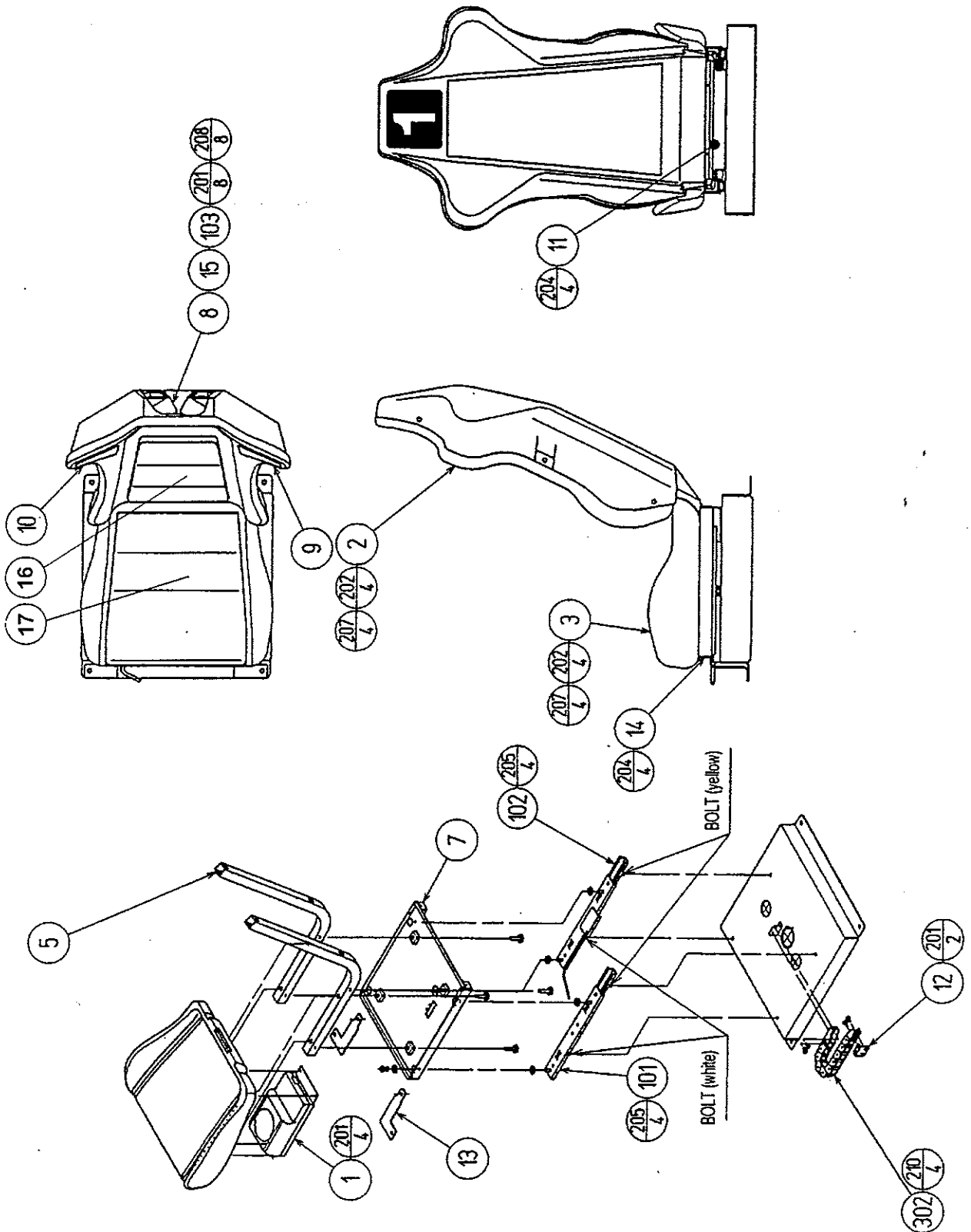
Indent #	Part No.	Description	Component Ref	Qty /assy
1	SPG-2001	STEERING WHEEL		1
2	FRI-1203UK	HANDLE COLLAR		1
3	FRI-2002	STEERING EMBLEM FRI		1
4	FRI-1201-02	CONTROL PANEL COVER MARS		1
5	FRI-1202UK	CONTROL PANEL BRKT TWIN		1
5	SPG-1202UK	CONTROL PANEL BRKT TWIN	ALTERNATIVE PART FOR ITEM 5	1
6	INY-1204	SHIFT COVER INY		1
7	DYN-1223X	SHIFT COVER B		1
8	SRT-1203UK	FAN BRKT UK		1
9	LMN-1202	SHIFT BASE		1
10	FRI-2550	ASSY HANDLE MECHA		1
10	FRI-2550UK	ASSY HANDLE MECHA	ALTERNATIVE PART FOR ITEM 10	1
11	FRI-2600	ASSY PADDLE SHIFT TWIN		1
12	FRI-1290	ASSY EFFECT SW TWIN		1
13	FS1031	M8 WSHR 25OD FLT BNP	(1)-3	3
14	FN1012	MESH GUARD METAL 120mm F		2
15	FRI-2055	BOSS COVER		2
16	DYN-1270	STOPPER KEY		1
17	FRI-1204	WIRE GUIDE		1
18	FRI-1212	SHIFT COVER LID		1
19	117-5164	PLATE START 37x42mm DAYT		1
20	DYN-0010UK	DENOMI PLATE		1
101	260-0011-02	AXIAL FLOW FAN AC100V 50-60Hz	AIRFLOW TOWARDS MOTOR	1
102	280-A01200-A	ROUTER TWIST D12 ADH		4
103	280-A02000-A	ROUTER TWIST D20 ADH		1
104	280-A02048-PM	ROUTER TWIST D20 SO4.8 P		2
108	509-5440	PUSH BTN SW IT GRN W/L D		1
109	211-5361-08	CONN AMP U/P 8 WAY PLUG		1
201	FX0275	M8X20 SET BZP	(1)-1 (USE ANAEROBIC RETAINER)	1
202	FX0365	M8 WSHR FORM A FLT BZP	(10)-4	4
203	FX0261	M8 WSHR SPR BZP	(1)-1,(10)-4	5
204	FX0213	M8 NUT BZP	(10)-4	4
205	FAS-200013	M4X16 MSCR SKT CAP CRM	(3)-4	4
206	000-T00416-OC	M4X16 MSCR POSI TH CRM	(4)-3	3
207	000-P00412-W	M4X12 MSCR POSI PAN W/FS PAS	(7)-3,(8)-2,(FAN EARTH)-1	6
209	000-P00312-W	M3X12 MSCR POSI TH CRM	(19)-2	2
210	FX0319	M3 NUT FLG SER BZP	(15)-2	2
211	000-T00412-OC	M4X12 MSCR POSI TH CRM	(12)-4	4
212	000-P00408-W	M4X8 MSCR POSI PAN W/FS	(17)-3	3
214	000-T00408-OB	M4X8 MSCR POSI TH BNP	(15)-8	8
215	028-A00410-P	M4X10 SET SCR HEX SKT CU	(11)-1	1
216	000-T00520-OB	M5X20 MSCR POSI TH BNP	(18)-4	4
217	030-000820-S	M8X20 BLT W/S PAS	(9)-4	4
218	050-F00400	M4 NUT FLG	EARTHS-2	2
219	OS1195	RIVET SNAP MOSS SR1811	(14)-5	5
220	FX0449	M4 WSHR FAN TOOTH EXT BZ	(FAN EARTH)-1	1
301	600-6873-050	WIRE HARN EXT VOLUME C		1
302	600-6873-039	WIRE HARN EXT ENCODER A		1
303	600-7064-028	WIRE HARN EXT MOTOR B	ALT=600-6873-046	1
304	600-6873-047UK	WIRE HARN CONT PNL FAN		1
305	600-6873-043	WIRE HARN VIEW BUTTON		1
307	600-6373-78	WIRE HARNESS PLAYER SEL		1
308	LM9511	LOOM EARTH 750mm	MON STAND-CONTRL PANL	1

7.8. FRI-1510UK- ASSY BASE LID R



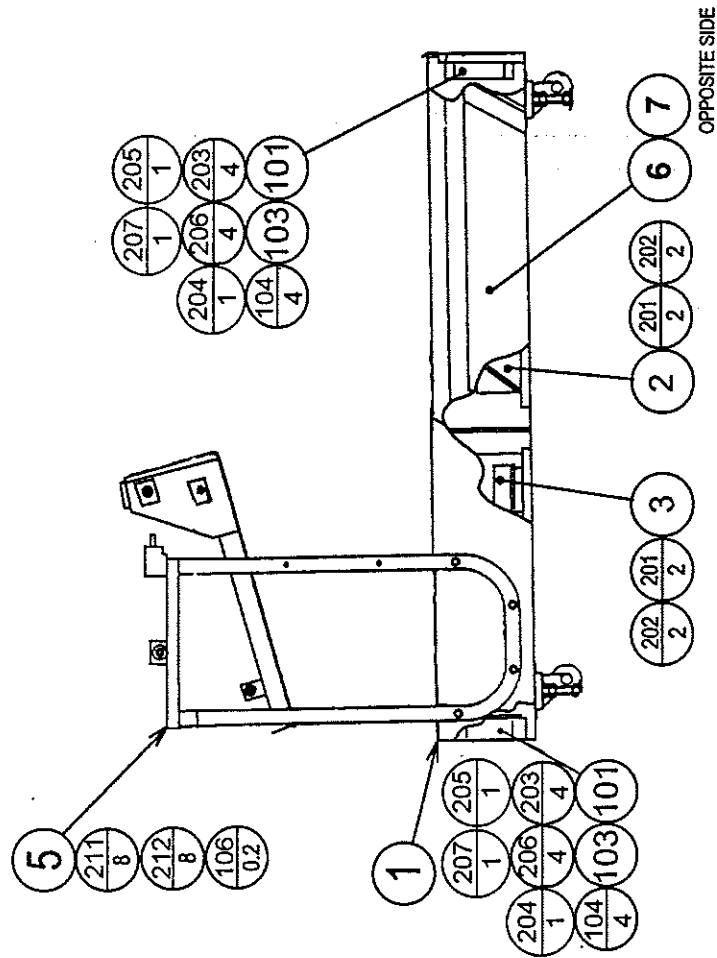
Indent #	Part No.	Description	Component Ref	Qty /assy
1	DUT-1511UK	BASE LID R		1
2	DUT-1511-CUK	GASKET STRIP	(1)-1	1
3	DUT-1511-DUK	LOCK TONGUE DUT	(101)-1	1
101	220-5575UK	LOCK		1
201	050-F00400	M4 NUT FLG	(301)-1	1
301	600-9020-44K	WIRE HARN EARTH 200mm M4/M4 K	R.FLOOR TO MAIN BASE	1

7.9. FRI-1600UK- ASSY SEAT



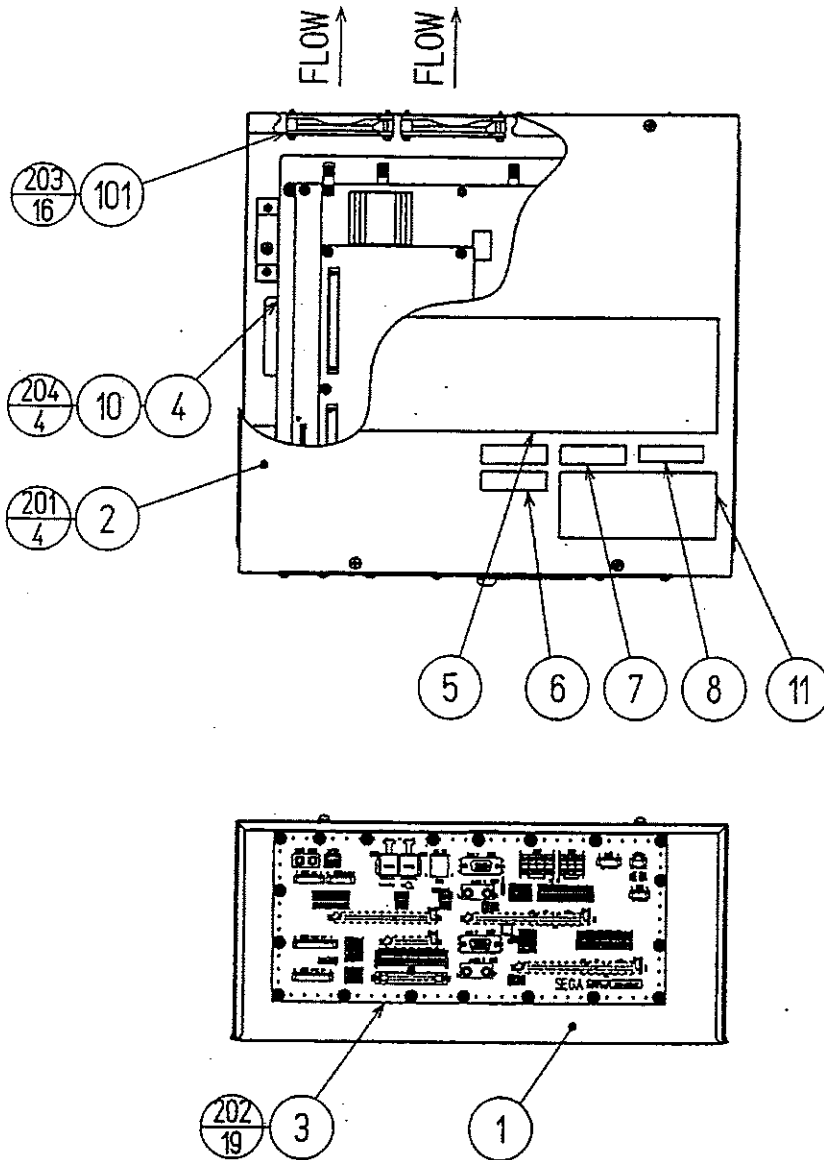
Indent #	Part No.	Description	Component Ref	Qty /assy
1	STC-1650	ASSY SUB WOOFER STCC		1
2	FRI-1602UK	UPPER SEAT BLANK		1
3	FRI-1603UK	LOWER SEAT BLANK		1
5	STC-1604	SEAT FRAME		2
6	FRI-1650UK	ASSY SUB SEAT TWIN		1
7	STC-1606	SEAT MOUNT TRAY		1
8	STC-1607	SP MOUNT BRKT		2
9	STC-1608	SPEAKER NET L		1
10	STC-1609	SPEAKER NET R		1
11	STC-1610	SAFETY GUARD		1
12	STC-1611	CABLE REAR BRKT		1
13	STC-1612	PROTECT RUBBER		2
14	STC-1613	SAFETY GUARD F		1
15	OS1004	DRAFT EXCLDR 4 X7MM BLK	(103)-0.8m, (4)-2x0.5m	1
16	FRI-1604UK	UPPER SEAT INSERT	(2)-1	1
17	FRI-1605UK	LOWER SEAT INSERT	(3)-1	1
101	601-9059-9	SEAT RAIL L		1
102	601-9060-9	SEAT RAIL R		1
103	130-5159	GULL BOX SPEAKER 8 OHM 5		2
103	130-5159	GULL BOX SPEAKER 8 OHM 5W		2
105	601-6563-188	BUSH 2.4T		1
106	601-6563-100	BUSH 2.4T		1
110	280-K02529-WX	DRIVE FASTENER 25FH 24L	(16)-8,(17)-10	18
111	280-A00900-A	ROUTER TWIST D9 ADH		4
201	000-P00410-W	M4X10 MSCR POSI PAN W/FS	(1)-4,(8)-8	12
202	030-000850-SB	M8X50 BLT W/S BNP	(2)-4,(3)-4	8
203	030-000816-S	M8X16 BLT W/S PAS	(7)-4	4
204	000-T00408-OB	M4X8 MSCR POSI TH BNP	(11)-4,(14)-4	8
205	FX0220	M8 NUT NLK BZP	(101)-4,(102)-4	4
207	FX0258	M8 WSHR 22OD FLT BZP	(2)-4,(3)-4	8
208	FX0155	N6X1/2" S/TAP POSI FLG B	(103)-8	8
210	000-T00616-OB	M6X16 MSCR TH POSI BNP	(302)-4	4
212	FX0042	M4X6 MSCR POSI PAN	2 - EARTHS	2
213	FX0243	M4 WSHR SPR BZP	2 - EARTHS	2
216	FX0009	M4 WSHR FORM A FLT BZP	2 - EARTHS	2
301	600-6774-016	WIRE HARN SPEAKER EXT		1
302	600-6774-017	WIRE SEAT EXT		1
303	600-9080-44K	WIRE HARN EARTH 800mm M4/M4		1

7.10. FRI-20001UK- ASSY MAIN BASE DUT TWIN



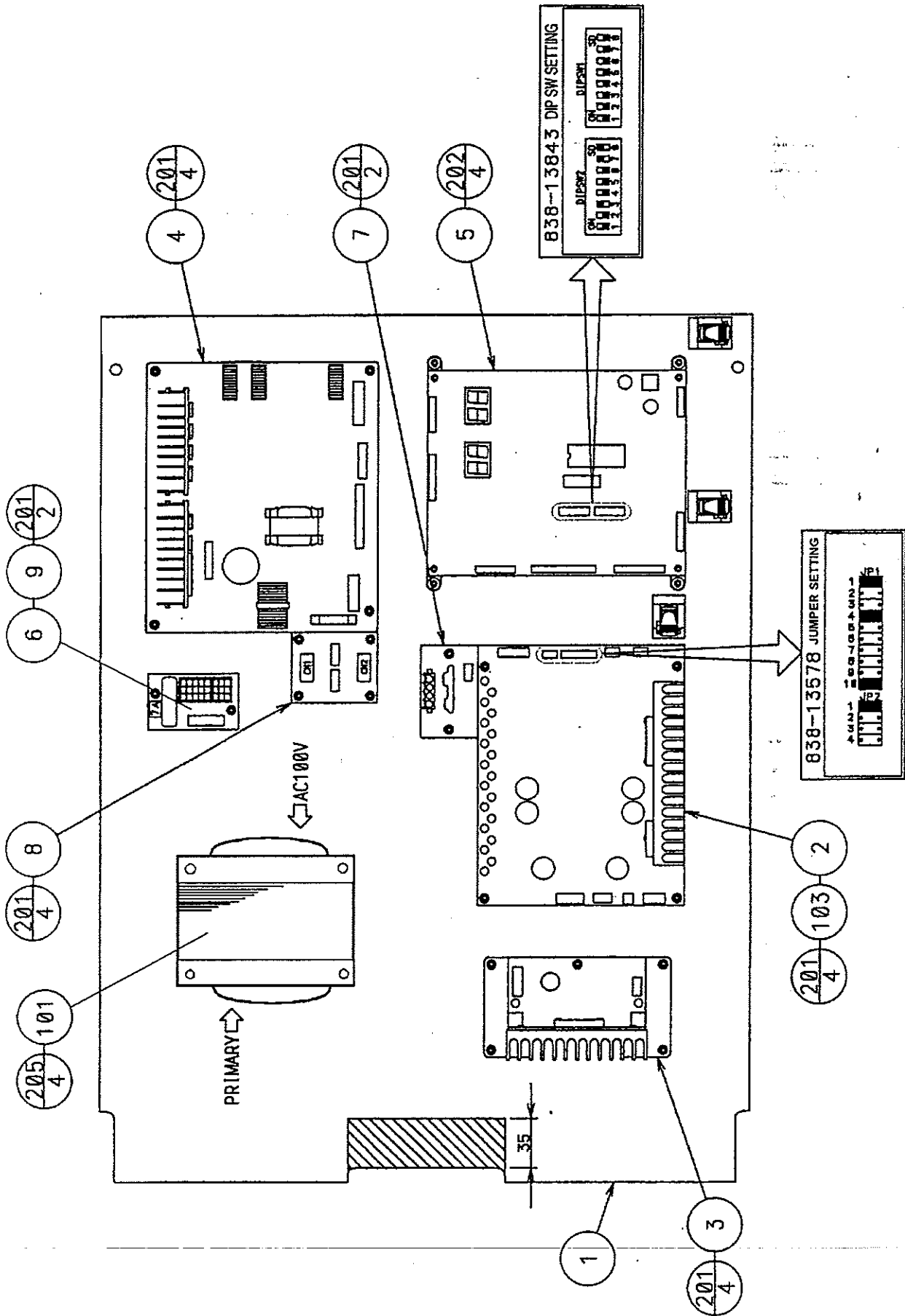
Indent #	Part No.	Description	Component Ref	Qty /assy
1	DUT-1120UK	ASSY SUB MAIN BASE		1
2	FRI-4500UK	ASSY MAIN BD BASE		1
3	FRI-4600UK	ASSY ELEC BASE		1
5	SPG-1014UK	MONITOR STAND		1
6	FRI-1501-B	STICKER BASE FRI TWIN L		1
7	FRI-1501-C	STICKER BASE FRI TWIN R		1
101	260-0011-02	AXIAL FLOW FAN AC100V 50		2
102	600-6275-0150	ASSY FIBER OPTIC φ5 0150		2
103	FN1012	MESH GUARD METAL 120mm F	(101)-2	2
104	OS1195	RIVET SNAP MOSS SR1811	(103)-8	8
106	OS1230	FOAM STRIP 2mm X 10mm	ON EARS OF MONITOR STAND	0
201	000-P00425-W	M4X25 MSCR POSI PAN W/FS	(2)-2,(3)-2	4
202	FX0301	M4 WSHR 16OD FLT BZP	(2)-2,(3)-2	4
203	FX0448	N10X1/2" S/TAP HEX B BZP	(101)-8	8
204	FX0037	M4X12 MSCR POSI PAN BZP	FAN EARTHS	2
205	FX0009	M4 WSHR FORM A FLT BZP	FAN EARTHS	2
206	FX0245	M5 WSHR FORM A FLT BZP	(101)-8	8
207	FX0449	M4 WSHR FAN TOOTH EXT BZ	FAN EARTHS	2
211	030-000850-SB	M8X50 BLT W/S BNP	(5)-8	8
212	068-852216-OB	M8 WSHR 22OD FLT BNP	(5)-8	8

7.12. FRI-4550-02 ASSY SHIELD CASE



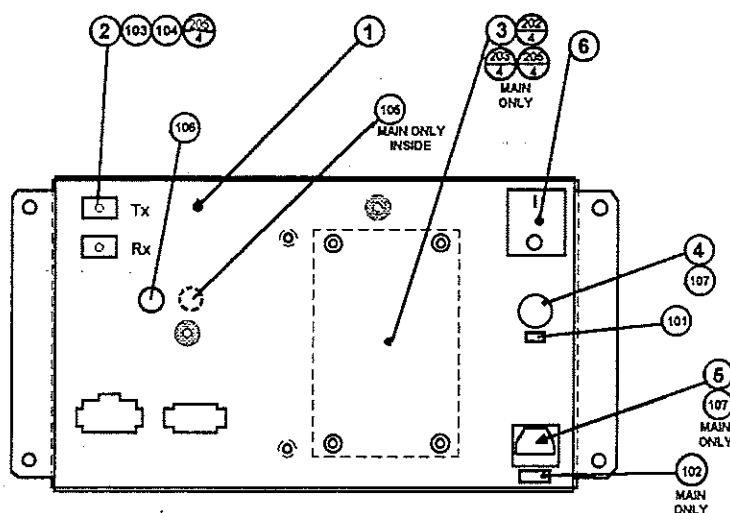
Indent #	Part No.	Description
1	105-5413	SHIELD CASE NAOMI MULTI 2
2	105-5414	SHIELD CASE LID NAOMI MULTI 2
3	839-1109-02	FILTER BD NAOMI MULTI MASTER FRI
4	833-13949-02	GAME BD FRI TWIN
5	421-9174-01	STICKER CAUTION ANTISTATIC
6	421-10023-AAA	STICKER BD SERIAL NUMBER AAA
7	421-10023-BBA	STICKER BD SERIAL NUMBER BBA
8	441-313949-02	STICKER 833-13949-02
9	601-10835	CARTON BAO NAOMI MULTI 2
10	105-5390	FIXING BRACKET
11	421-10094	STICKER ONLY JAPAN
101	260-0064	FAN MOTOR DC12V
102	280-5275-SR10	CORD CLAMP SR10
201	000-P00408-W	M SCR PH W/F M3X8
202	010-P00308-F	S-TITE SCR PH W/F M3X8
203	000-P00320-W	M SCR PH W/F M3X20
204	000-P00412-W	M SCR PH W/F M4X12
301	APC-60046	WIRE HARN FAN MOTOR SLAVE

7.13. FRI-4600UK - ASSY ELEC BASE



Indent #	Part No.	Description	Component Ref	Qty /assy
1	FRI-4601UK	WOODEN BASE ELEC		1
2	838-13578	PWR AMP 2CH & MIXER		1
3	838-11651-01	LOWPASS AMP W/LARGE HEAT		1
4	838-12912-01	SERVO MOTOR DRIVE BD NEW		1
5	838-13843	DRIVE BD FRI		1
6	838-11856CE-02	CONN BD W/FUSE 6.3A CE		1
7	839-1148	4A DC SSR BD NH4P		1
8	839-1151	CAPACITOR BD		1
9	421-6595-6300-T	STICKER FUSE 6300mA TYPE	(6)-1	1
101	560-5394UK	TRANSFORMER DUT TW		1
103	211-5305	C JMPR SCKT (IMSA-9206H-	JP1 POS1,2&10. JP2 POS1	4
104	280-A01264-WX	ROUTER TWIST D12 SO6.4 W		6
105	280-A02064-WX	ROUTER TWIST D20 SO6.4 W		15
201	FX0151	N4X1" S/TAP POSI PAN BZP	(2,3,4,8)-4EA,(6,7)-2EA	20
202	FX0150	N4X5/8" S/TAP POSI CSK B	(5)-4	4
205	000-P00416-W	M4X16 MSCR POSI PAN W/FS	(101)-4	4
301	600-6985-006UK	WIRE HARN AC100V OUT		1
302	FRI-61002UK	WIRE HARN CONN BD OUT A		1
303	FRI-61004	WIRE HARN M.DRIVE BD 100		1
304	FRI-61030	WIRE HARN EXT MOTOR A	ALT=600-7076-015UK	1
305	FRI-61010	WIRE HARN DRIVE BD		1
306	FRI-61012UK	WIRE HARN M.DRIVE BD ENC		1
307	FRI-61013	WIRE HARN TX & RX		1
308	FRI-61014UK	WIRE HARN DRIVE BD DC IN		1
309	FRI-61011	WIRE HARN SSR BD SIG		1
310	600-7064-013	WIRE HARN AUDIO WOOFER	ALT=600-7076-009	1
311	FRI-61006	WIRE HARN AMP SPEAKER		1
312	FRI-61007	WIRE HARN AMP VR		1
313	FRI-61008UK	WIRE HARN AMP VR		1
314	600-7064-005UK	WIRE HARN 14V AC IN FUSE	ALT=600-7076-206UK	1
315	FRI-61028UK	WIRE HARN EXT AC 100V B		1
316	FRI-61003	WIRE HARN CONN BD OUT B		1
317	FRI-61034UK	WIRE HARN EXT COIN		1
318	FRI-61035	WIRE HARN EXT EFFECT SW		1
319	FRI-61036	WIRE HARN EXT VR A		1
320	FRI-61026UK	WIRE HARN EXT AC UNIT		1

7.14. DRT-5000UK - ASSY AC UNITS



Indent #	Part No.	Description	Component Ref	Qty /assy
1	SRT-0401UK	AC BRKT UK		2
2	211-5479-01	CONN OPT JOINT PNL-TOCA150	MAIN-2,SUB-2	4
3	EP1379	FILTER EMI 10A ARCOTRONICS	MAIN ONLY	1
4	EP1334	FUSE HOLDER 20mm 10A 240Vac	MAIN-1,SUB-1	2
5	EP1302	EUROSOCKET FUSED 10A 250Vac	MAIN-1	1
6	EP1303	SWITCH ROCKER DPST 10A 250Vac	MAIN-1	1
7	514-5078-10000	FUSE 5X20 CERAMIC SB 10000mA	MAIN-1	1
10	514-5078-5000	FUSE 5X20 CERAMIC SB 5000mA	MAIN-1,SUB-1	2
11	310-5029-D508	HEAT SHRINK SLEEVING 50.8DIA	OVER ITEM 5 (50MM OVER SOCKET)	0.05
101	LB1000	LABEL 5A (AC BRKT FUSE)	MAIN-1,SUB-1	2
102	LB1037	LABEL 10A FUSE	MAIN-1	1
103	LB1087	STICKER FIBRE CABLE RX	MAIN-1,SUB-1	2
104	LB1088	STICKER FIBRE CABLE TX	MAIN-1,SUB-1	2
105	LB1096	STICKER PROTECTIVE EARTH	MAIN ONLY ON INSIDE STUD	1
106	LB1097	STICKER EARTH GROUND	MAIN (OUTSIDE)-1,SUB IN&OUT	3
107	LB1100	STICKER FUSE TYPE T	(4)-1 EA SIDE,(5) MAIN ONLY	3
202	FX0239	M3 WSHR SPR BZP	(3)-4 MAIN ONLY	4
203	FX0263	M3 WSHR FORM A FLT BZP	(3)-4 MAIN ONLY	4
204	050-F00400	M4 NUT FLG	EARTHS: 2-EA MAIN & SUB	4
205	FX0029	M3X10 MSCR POSI PAN BZP	(2)-8,(3)-4	12
301	600-6999-201UK	WIRE HARN SUB AC BRKT	SUB-1	1
302	600-6873-001UK	WIRE HARN XFMR IN	MAIN-1	1
303	LM9111	LOOM EARTH 300mm	MAIN-1,SUB-1 TO MAIN BASE STUD	2
304	600-9045-45K	WIRE HARN EARTH 450mm M4/M5	MAIN-1 SUB-1	2

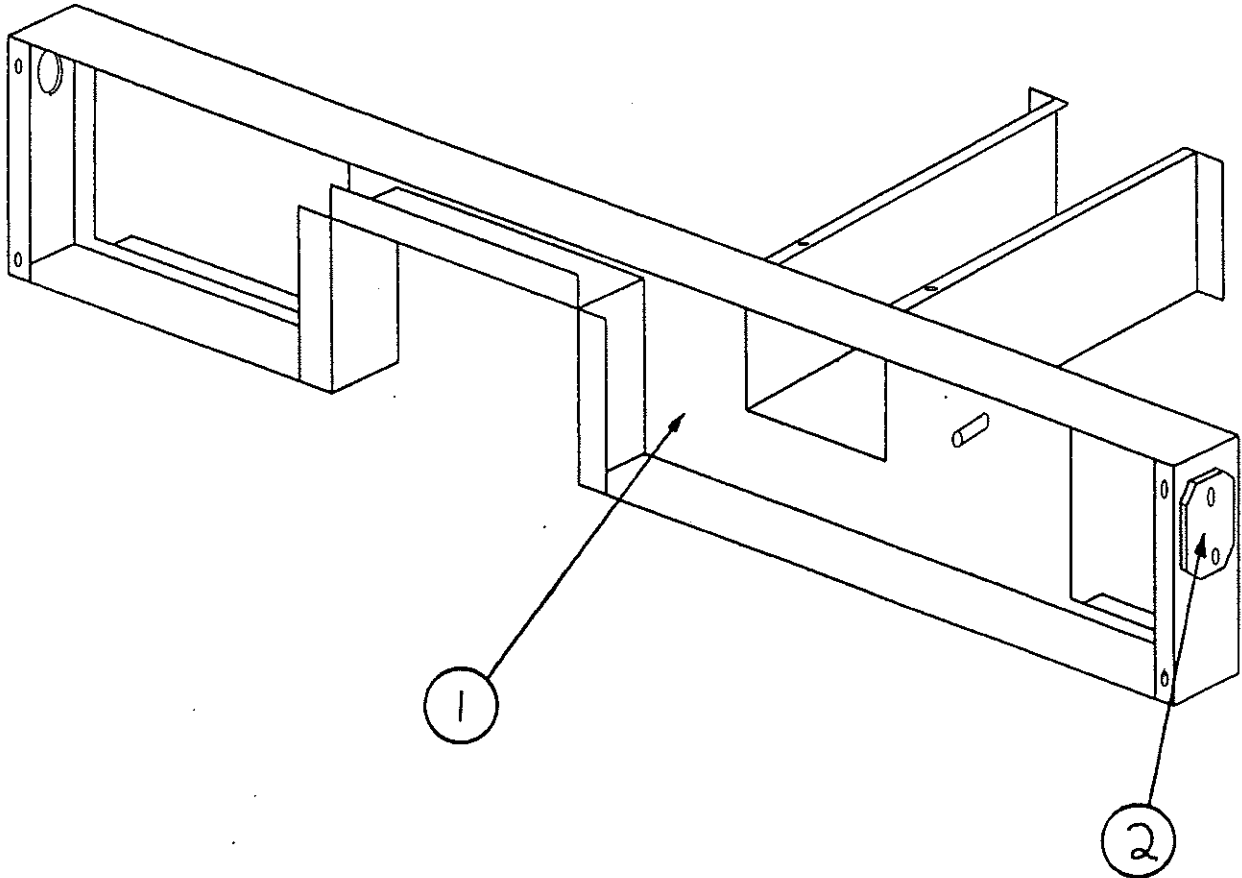
7.15. FRI-6000UK- ASSY HANDING KIT

Indent #	Part No.	Description	Component Ref	Qty /assy
1	421-9749-04	STICKER SEGA LOGO LUMI R	(1P LHS)-1,(2P RHS)-1	2
2	FRI-1601-AUK	SEAT REAR COVER BLANK		2
3	FRI-1035-B	STICKER FRI TWIN SIDE L		1
4	FRI-1036-B	STICKER FRI TWIN SIDE R		1
5	FRI-1601-BUK	STICKER SEAT FRI TWIN		2
6	FRI-1601-C	STICKER NO.1 FRI TWIN		1
7	FRI-1601-D	STICKER NO.2 FRI TWIN		1

7.16. FRI-INST-TWIN - ASSY INSTALLATION KIT

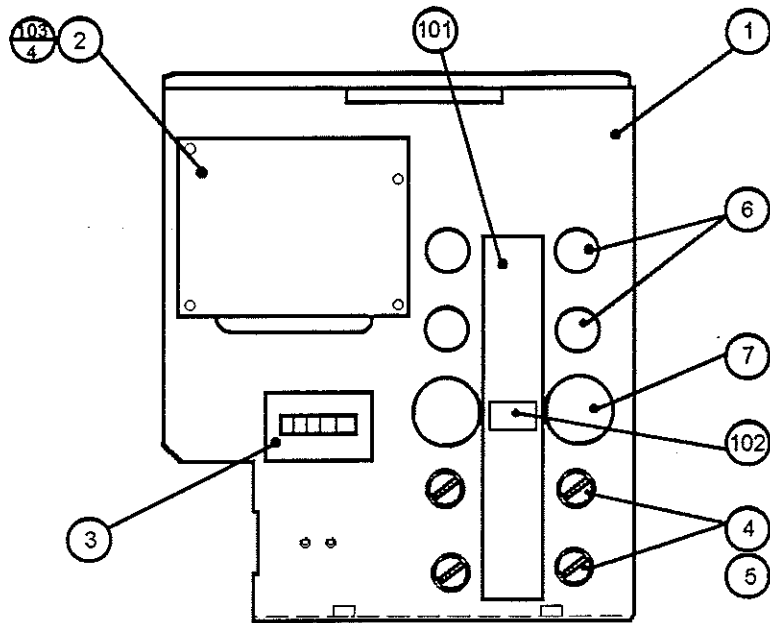
Indent #	Part No.	Description	Component Ref	Qty /assy
1	FRI-0200UK	ASSY BILLBOARD		1
2	FRI-0300UK	ASSY COINCHUTE TOWER FRI		1
2	DUT-0300UK	ASSY COINCHUTE TOWER	ALTERNATIVE PART FOR ITEM 2	1
3	SPG-0500UK	ASSY WIRE COVER SPG TWIN		1
4	DYN-0013	JOINT PIPE		1
6	DYN-0006XUK	AC COVER B		1
7	SRT-0018UK	AC COVER C		1
8	DYN-0019UK	AC COVER D		1
9	RAL-XXXX-14UK	TIE BRACKET RALLY		1
10	PK0225	CARTON INST KIT FRI TWIN		1
11	422-0788UK	SUB INSTR SH FRI TWIN MU		2
13	422-0787UK	PLAY INSTR SH FRI TWIN M		2
14	SPG-0008	BILLBOARD HOLDER		2
17	421-11210	STICKER NO. OPTION FRI T		1
101	514-5078-10000	FUSE 5X20 CERAMIC SB 100		1
102	514-5078-5000	FUSE 5X20 CERAMIC SB 500		2
201	030-000825-SB	M8X25 BLT W/S BNP	(4)-4,(14)-8	12
203	030-000820-S	M8X20 BLT W/S PAS	(4)-4,(14)-8	4
204	000-P00408-WB	M4X8 MSCR POSI PAN W/FS	(3)-5,(6)-4,(7)-2,(8)-4	15
205	060-F00800-OB	M8 WSHR FORM A FLT BNP	(4)-4	4
206	050-F00400	M4 NUT FLG	COINCHUTE-1	1
207	FX0258	M8 WSHR 22OD FLT BZP	(2)-4,(14)-8	12
403	540-0006-01	WRENCH M4 TMP PRF		1
404	540-0007-01	WRENCH M5 TMP PRF		1
405	540-0009-01	WRENCH M8 TMP PRF		1
406	220-5484	VOL CONT B-5K OHM		1
407	509-5387	SW MICRO TYPE (AH71557K)	SPARE	2
410	OS1019	SELF SEAL BAG 9X12.3/4		1
411	420-6507-05UK	SERVICE MANUAL F355 TWIN		1
412	420-5787	SERVICE MANUAL NANA0 MS-		1
413	SAECE-050	DECLARATION OF CONFORMIT		1

7.17. SPG-0500UK- ASSY WIRE COVER SPG TWIN



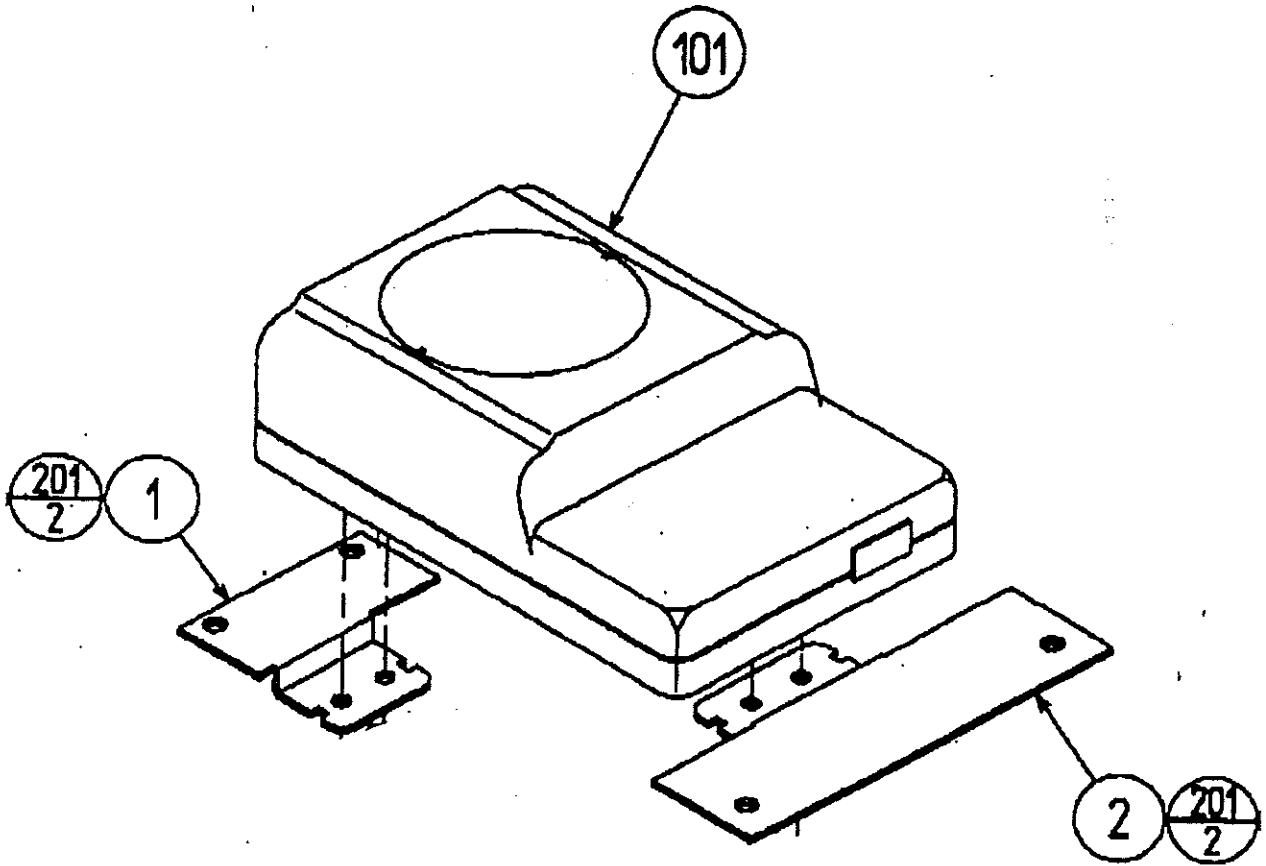
Indent #	Part No.	Description	Component Ref	Qty /assy
1	DYN-0005UK	AC COVER A		1
2	DYN-0009UK	HOLE LID	(1)-2	2
101	600-6275-0500	CABLE FIBER OPTIC 5mm x 500cm		2
201	000-P00308-WB	M3X8 MSCR POSI PAN W/FS BNP	(2)-4	4
202	050-F00400	M4 NUT FLG	EARTH - 1	1
203	280-A02000-A	ROUTER TWIST D20 ADH	(1)-5	5
301	600-6817-104	WIRE HARN EXT AC (SPG)		1
302	600-6817-102	WIRE HARN EXT TOWER L (SPG)		1
303	600-6817-103	WIRE HARN EXT TOWER R (SPG)		1
304	600-6373-76	WIRE HARNESS PLAYER SEL EXT A		1
305	LM9511	LOOM EARTH 750mm	SUB AC-AC COVER	1
306	LM9111	LOOM EARTH 300mm	MAIN AC-AC COVER	1
307	LM9212	LOOM EARTH 400mm	AC COVER - CCT	1

7.18. SRT-0350UK - ASSY VTS



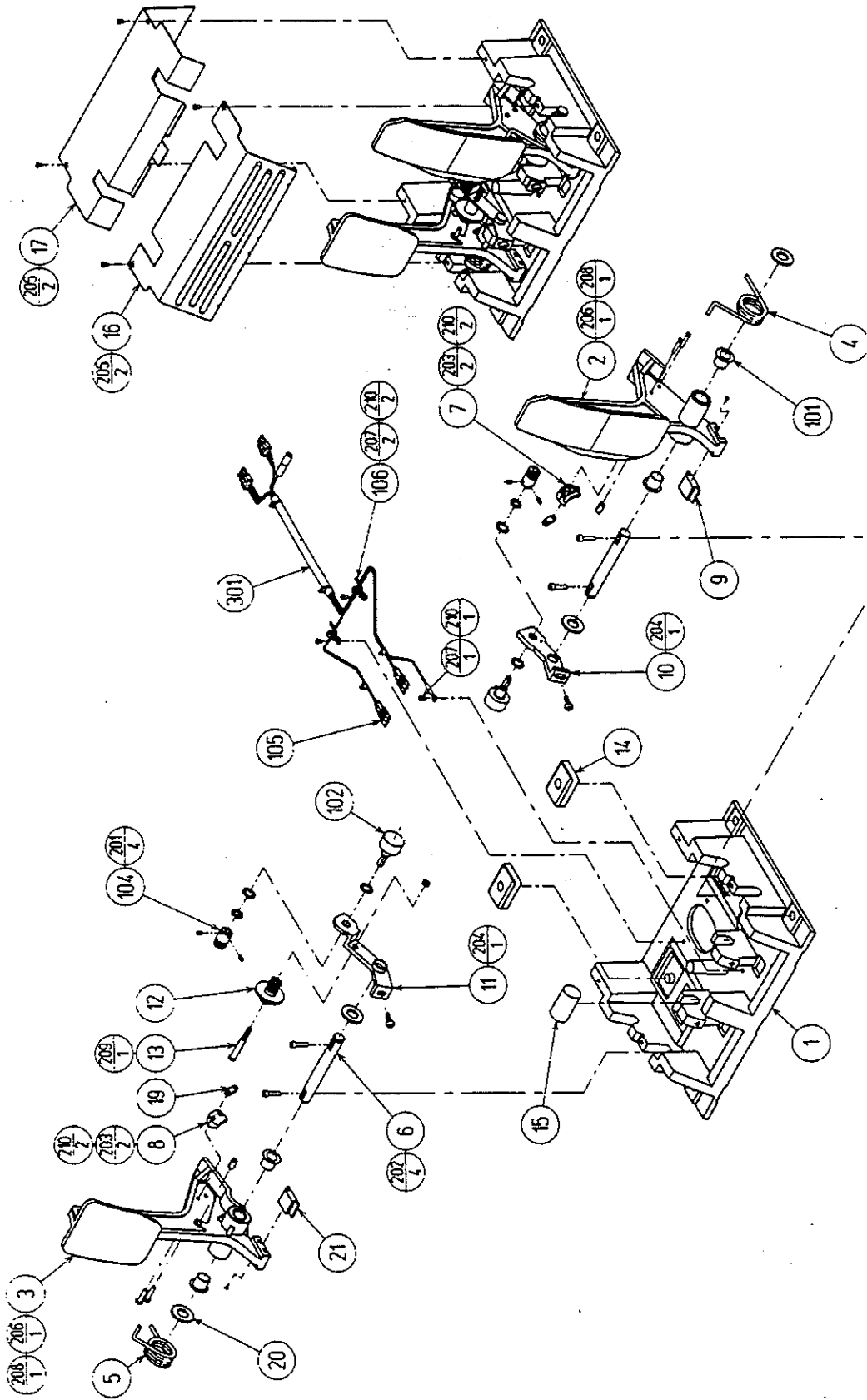
Indent #	Part No.	Description	Component Ref	Qty /assy
1	SRT-0351UK	VTS BRKT SRT TWIN UK		1
2	EP1374A	CREDIT BD KLINGON PLUS - 1		1
3	EP1003	COUNTER IMPULSE, PANEL W/CLIP		1
4	EP1331	POT 4.7K LIN 0.11" TAB		4
5	EP1015	KNOB FOR 6.35MM POT SHAFT		4
6	SW1100	SWITCH MOMENTARY 0.11" TAB		4
7	SW1108	SWITCH PB MOMENT 35A SNAPIN		2
101	SPG-0351UK	STICKER VTS SPG TWIN		1
102	LB1028	LABEL 110VAC MINI YELL/BLK		1
103	280-L01640-PS	STANDOFF 16mm 4mm PANEL SMALL		4
204	OS1098	CRIMP BELL END SMALL	(3)-2	2
205	OS1181	CABLE TIE BASE 19mmSq SELF/ADH	(1)-2	2
206	OS1174	CABLE TIE, NYLON 100mm	(1)-5	5
207	000-P00408-W	M4X8 MSCR POSI PAN W/FS PAS	EARTH	1
301	600-6817-101UK	WIRE HARN VTS SPG TW		1
302	LM9011	LOOM EARTH 200mm	VTS TO CCT	1

7.19. STC-1650- ASSY SUB WOOFER



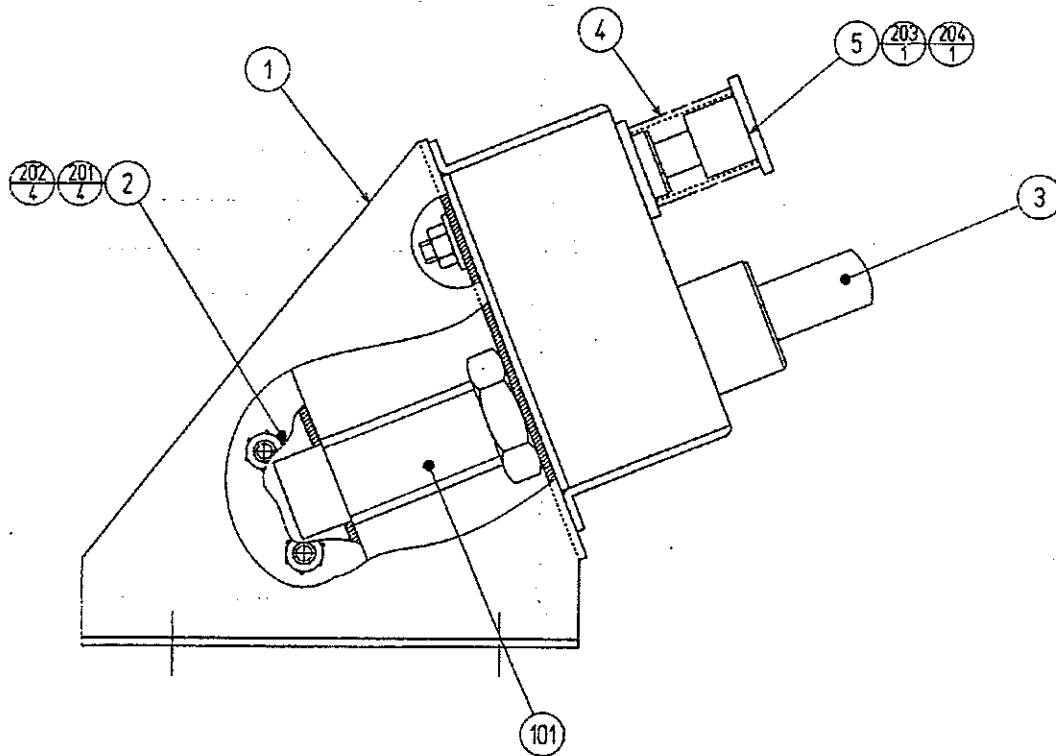
Indent #	Part No.	Description	Component Ref	Qty /assy
1	STC-1651	WOOFER BRKT F		1
2	STC-1652	WOOFER BRKT R		1
101	130-5160	SUB WOOFER 4OHM 30W		1
201	FX0163	N8X1/2" S/TAP POSI FLG BZP		4

7.20. ASSY ACCEL & BRAKE (SPG2200)



Seq. No.	Part No.	Description	Qty.
1	SPG-2201	BASE	1
2	SPG-2202	ACCEL PEDAL	1
3	SPG-2203	BRAKE PEDAL	1
4	SPG-2204	ACCEL SPRING	1
5	SPG-2205	BRAKE SPRING	1
6	SPG-2206	SHAFT	2
7	SPG-2207	ACCEL GEAR	1
8	SPG-2208	BRAKE GEAR	1
9	SPG-2209	NEUTRAL STOPPER	1
10	SPG-2210	VR PLATE ACCEL	1
11	SPG-2211	VR PLATE BRAKE	1
12	SPG-2212	AMPL GEAR	1
13	SPG-2213	GEAR SHAFT	1
14	SPG-2214	STOPPER	2
15	SPG-2215	RUBBER CUSHION	1
16	SPG-2216	COVER	1
17	SPG-2217	VR COVER	1
19	SPG-2219	GEAR STAY	2
20	SPG-2220	WSHR	4
21	SPG-2221	NEUTRAL STOPPR D	1
101	100-5263	BEARING 12 (OILES 80F-1212)	4
102	220-5484	VOL CONT B-5K OHM	2
104	601-7944	GEAR 15	2
105	310-5029-F15	SUNITUBE F F15MM	6
106	280-0419	HARNESS LUG	2
201	028-A00304-P	SET SCR HEX SKT CUP P M3X4	4
202	020-000516-OZ	HEX SKT H CAP SCR BLK OZ M5X16	4
203	000-P00420	M SCR PH M4X20	4
204	000-P00508-W	M SCR PH W/FS M5X8	2
205	000-T00408-OC	M SCR TH CRM M4X8	4
206	FAS-450005	SPR PIN BLK OZ 6X10	2
207	000-P00405	M SCR PH M4X5	3
208	FAS-000001	M SCR TH CRM M3X6	2
209	050-H00500	HEX NUT M5	1
210	060-F00400	FLT WSHR M4	7

7.21. ABSORBER UNIT TWIN (FRI-2350)



Indent #	Part No.	Description
1	FRI-2351	ABSORBER BRKT TWIN
2	FRI-2352	ABSORBER SUB BRKT TWIN
3	FRI-2303	PLUNGER
4	FRI-2305	COMP SPRING FRI
5	FRI-2306	STOPPER SHAFT
101	601-10662	SHOCK ABSORBER W/O CAP
201	030-000825-SB	HEX BLT W/S BLK M8X25
202	060-F00800-0B	FLT WSHR BLK M8X25
203	050-U00600	U NUT M6
204	068-652016	FLT WSHR 6.5-20X1.6

Indent #	Part No.	Description
1	SPG-2201	BASE
2	FRI-2251	ACCEL PEDAL FRI
3	FRI-2252	BRAKE PEDAL FRI
4	FRI-2257	ACCEL SPRING FRI
5	FRI-2253	BRAKE SPRING FRI
6	SPG-2206	SHAFT
7	SPG-2207	ACCEL GEAR
8	FRI-2254	NEUTRAL STOOPER FRI
9	SPG-2210	VR PLATE ACCEL
10	FRI-2255	VR PLATE BRAKE FRI
11	SPG-2214	STOPPER
12	SPG-0016	COVER
13	FRI-2256	VR COVER FRI
14	SPG-2219	GEAR STAY
15	SPG-2220	WSHR
16	FRI-2258	STOPPER PLATE
17	FRI-2259	GEAR SPACER
101	100-5263	BEARING
102	220-5484	VOL CONT B-5K OHM
103	601-7944	GEAR 15
104	310-5029-F15	SUMITUBE FF 15MM
105	280-0419	HARNESS LUG
201	028-A00304-P	SET SCR HEX SKT CUP P M3X4
202	020-000520-0Z	HEX SKT H CAP SCR BLK M5X20
203	000-P00420	M SCR PH M4X20
204	000-P00508-W	M SCR PH W/FS M5X8
205	000-T00408-OC	M SCR TH CRM M4X8
206	FAS-450005	SPR PIN BLK OZ 6X10
207	000-P00405	M SCR PH M4X5
208	FAS-000001	M SCR TH CRM M3X6
209	060-F00400	FLT WSHR M4
210	000-P00412-W	M SCR PH W/FS M4X12
301	FRI-60088	WIRE HARN ACCEL & BRAKE

APPENDIX A - ELECTRICAL SCHEMATIC

7.22. WIRE COLOURS

THE WIRE COLOUR CODE IS AS FOLLOWS:

A	PINK
B	SKY BLUE
C	BROWN
D	PURPLE
E	LIGHT GREEN

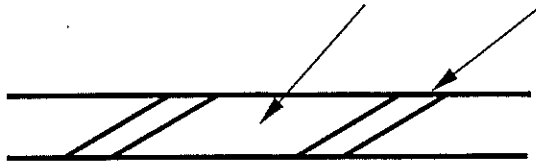
Wires other than those of any of the colours listed above will be displayed by 2 alphanumeric characters:

1	RED
2	BLUE
3	YELLOW
4	GREEN
5	WHITE
7	ORANGE
8	BLACK
9	GREY

If the right hand side numeral of the code is 0, then the wire will be of a single colour shown by the left hand side numeral (see the list above).

Note 1: If the right hand side alphanumeric is not 0, that particular wire has a spiral colour code. The left hand side character shows the base colour and the right hand side one, the spiral colour.

[Example] 51----- WHITE/RED = WHITE wire with RED stripes



Note 2: The character following the wire colour code indicates the size of the wire.

K:	AWG18, UL1015
L:	AWG20, UL1007
None	AWG22, UL1007

7.23. ELECTRICAL SCHEMATIC

The following 5 pages contain the electrical schematic for this machine.