

Kart Managers Guide

2008 Generation III Controllers



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Section 1-Controller hardware descriptions

Section 2-Service mode functions and screen shots

Introduction

This document describes the new controller hardware items and shows the new functionality of the service mode.

All other general kart functions remain the same.

- *No unauthorised modifications to the equipment are allowed.*
- *Such modifications may cause radio and television interference which could void the user's authority to operate this equipment.*

Section 1

Generation III Controller- Hardware Items

Each controller is housed in a die cast aluminum box. There are between 2 & 4 circuit boards contained in each controller box depending on the required use and specification.

Stand Controller

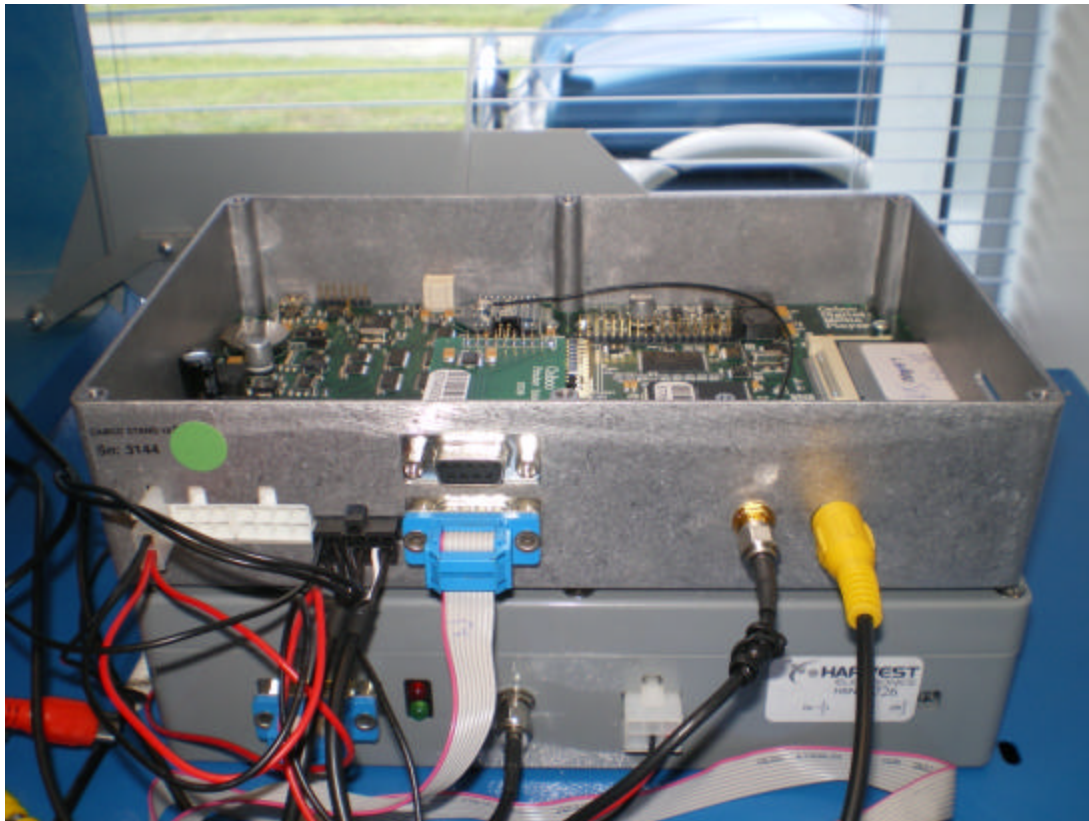
The stand controller has 3 circuit boards.
The controller is powered by a 24v supply.

On the left is the main controller with built in 2.4Ghz RF module.
On the right is the digital media player which supports both SD & CFC.
The small middle PCB supports a printer interface.



The connectors on the stand controller from left to right are:

1. 2-way power supply
2. 6-way for future hardware
3. 8-way for future hardware
4. 12-way connector for service mode button, 7" LCD power + audio and stand soft key buttons.
5. Lower connector is Data cable to Harvest
6. Upper connector is printer.
7. RF antenna port
8. RCA video output



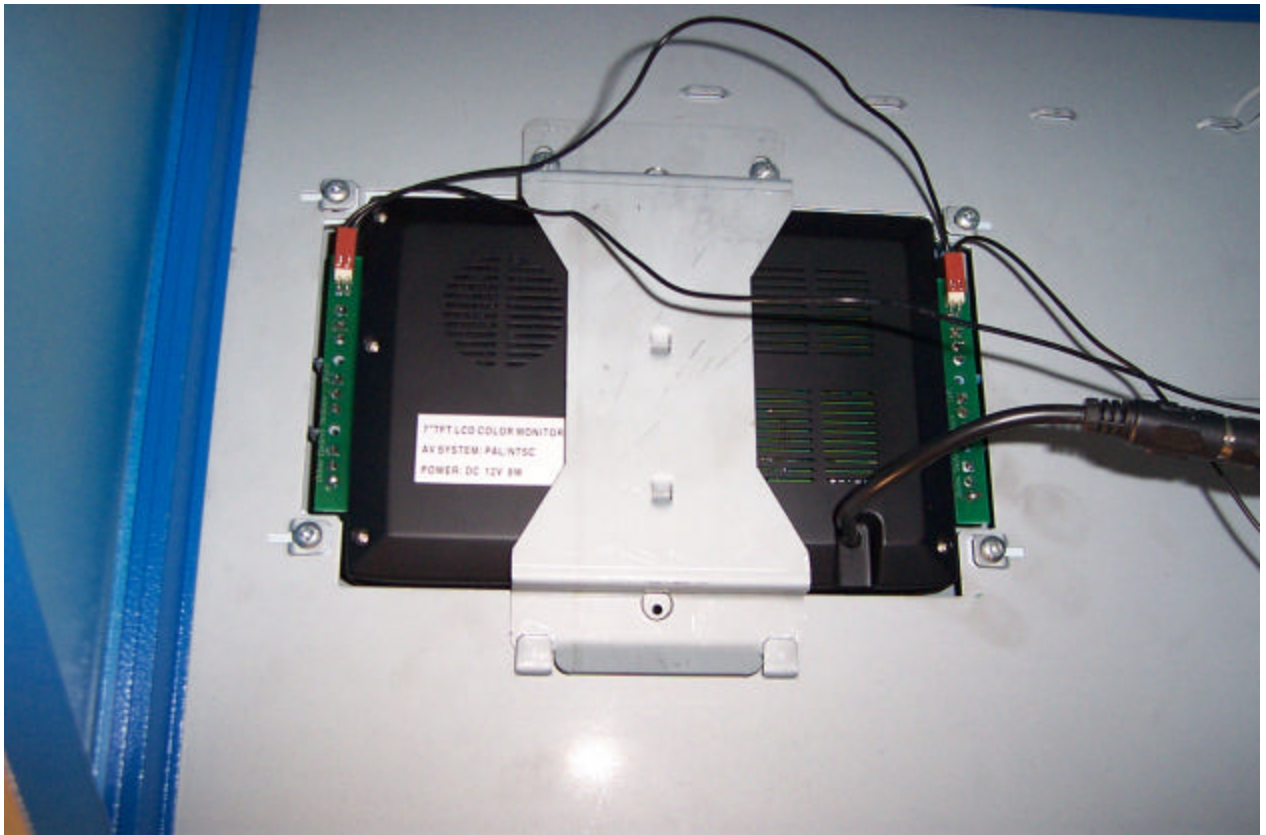
The stand houses a 7" LCD monitor similar to the children's and the media monitors.

Mounted either side of the monitor are 6 switches called "soft keys".
These switches are mounted on small circuit boards with connectors to the stand controller.

These connectors can be used on either left or right circuit board.

The monitor is connected to an 8-way DIN cable which has RCA connectors to the stand controller.

The red video 3 connector is not used & the white audio RCA may/not be used depending on the end application.



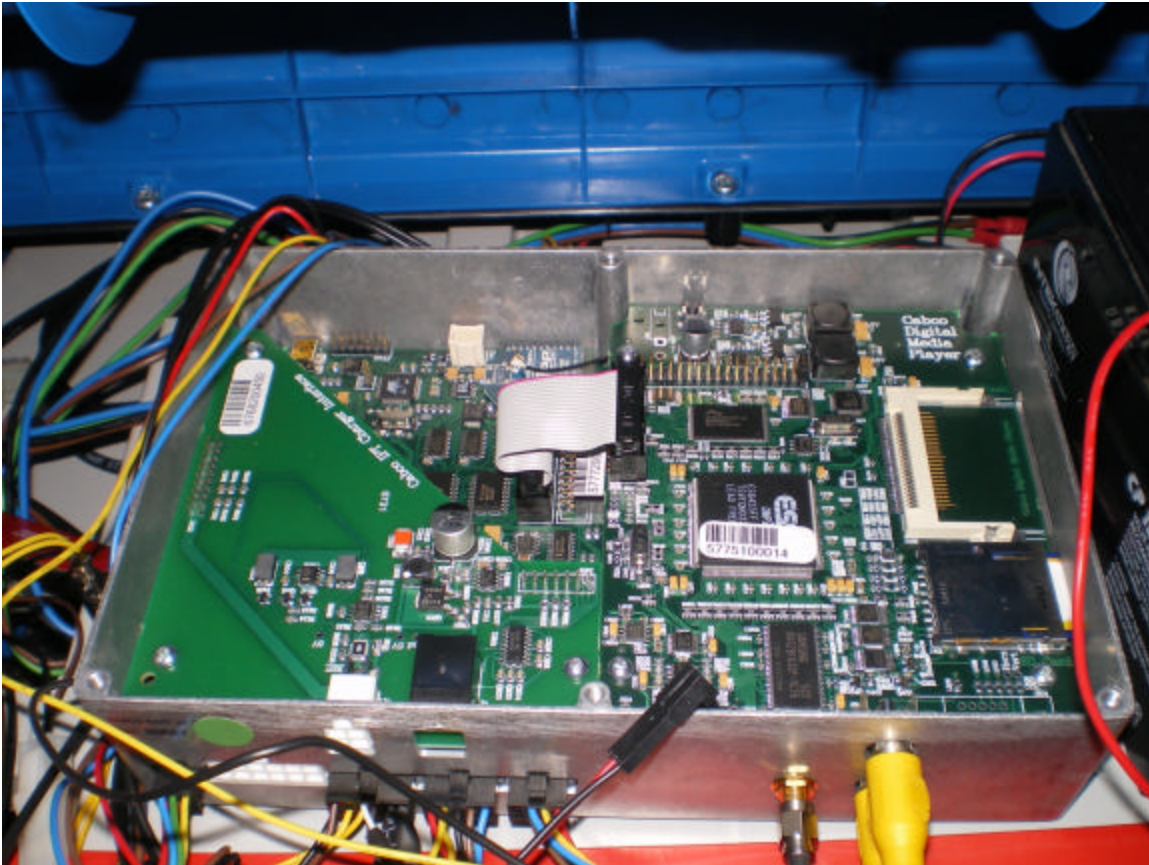
Kart Controller

A kart controller incorporating a media monitor will contain 4 separate circuit boards.

1. Main kart board incorporating a 2.4Ghz RF module
2. Children's digital media player
3. Media monitor DMP.
4. Battery charging board.

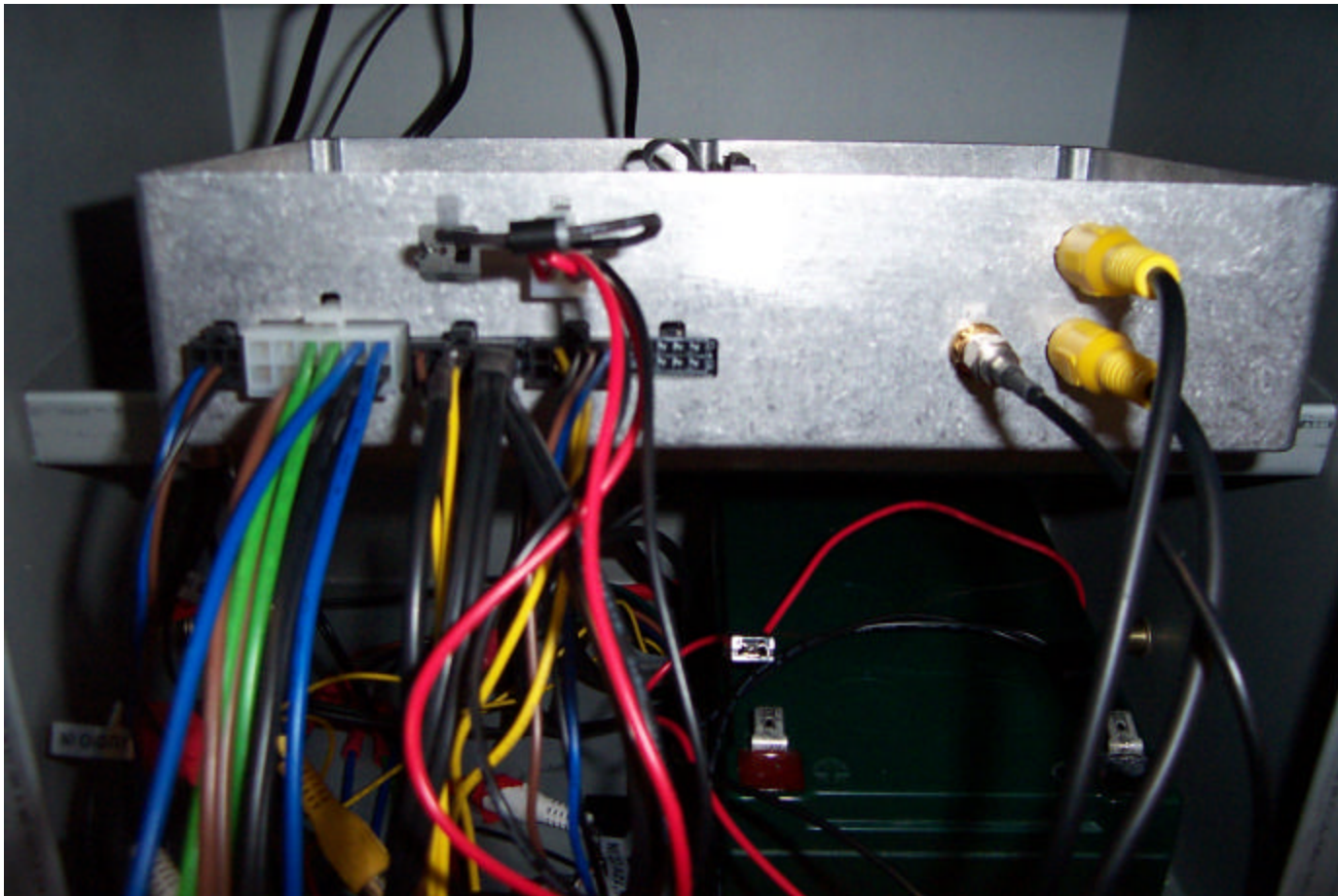
A controller may be made with just the children's DMP.

The battery charging board will differ for IPT & contact charging.



The connectors on a kart controller from left to right are:

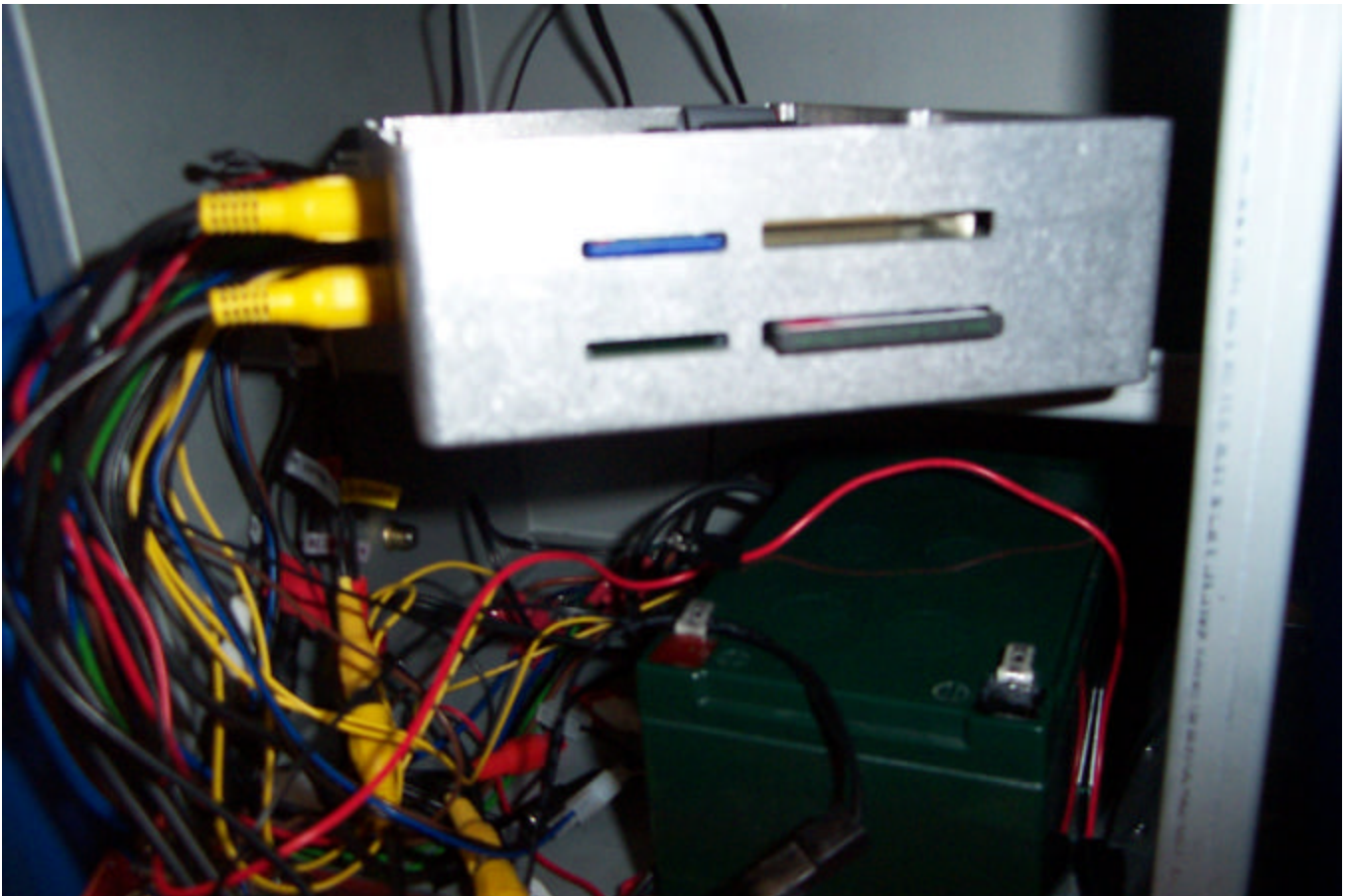
1. Top 4 –way is the power connector
2. Left side 6-way is the trunk LED & future “gas gauge”
3. 12-way mini fit is for the brakes
4. 12-way micro fit is for 2x monitor DIN connectors, 2x monitor audio (RCA or spade) and 2 pin connector to the media monitor switches.
5. 8-way connector to brake release & sensor
6. 10-way for future hardware
7. 2.4Ghz RF antenna
8. top yellow RCA is for media monitor
9. lower yellow RCA is for children’s monitor



On the right side of the controller , with the connectors facing you, there are slots for the media cards.

The children's DMP is the lower slots, we use a CFC for this.

The media monitor is the top slot, we use an SD card on this.



Section 2-Cabco Stand Service Mode Screens

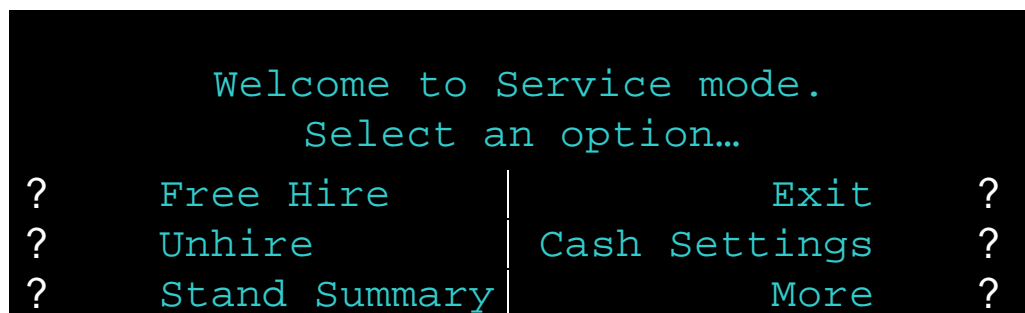
Generation III controllers

Service mode is entered by pressing the service mode button which is found on the inside roof of the lower section of the Kart Pay Station.(same as tvkart V1)

Service mode allows access to any cash totals, kart set up, store settings and media settings.

The following screen shots show the detail of all functions.

Main Menu Page 1



Free Hire-starts a kart on "hire mode"-used to start a hire & to test a kart

Unhire-stops a kart already in "hire mode"

Stand Summary-shows cash and software running in stand

Exit- exits to "public menu"

Cash settings-shows cash and onto clear cash screens

More- moves to the next Service main page 2

Unhire a Kart
Select an option...

?	Next		Exit	?
?	Kart 1			?
?	Kart 2			?

Stand Summary

Total :	\$0.00/0		?
Recent :	\$0.00/0	Exit	
In cash Box :	\$0.00		
Total Hires :	1		
Free Hires :	1	Softwar	
		e	
		Ver	
		3.09	
		185D	
		Ver	
		3.02	

Cash Settings

	Cash Box :	\$0.00/0	Exit	?
?	Free Hires		Clear Cash	?
			Box	
?	Down	Hire Cost	Up	?
		\$1.00		

Main Menu Page 2

```

                                Main Menu 2.
                                Select an option...
?      General Settings      Exit      ?
?      Kart Control          Log       ?
?      Store Kart           History   ?
      Summary                More

```

General Settings-displays all store “general settings”

Kart control-allows control of a single kart

Store Kart summary-shows the “status” of all karts in a store

Exit-exits back to first page

Log History-shows a simple log file of recent actions performed by the stand

More-goes to next page

Main menu 2 General Settings

```

                                General Settings
?      Find Karts           Exit      ?
      enabled
?      Updates enabled     Kart      ?
      Updates enabled     Delays
?      Parent Screen       Volume   ?
      enabled

```

Find karts enabled-will “look” for any karts in range.

Updates disable/enabled-will disable or enable stand to kart code updates

Parent screen enable -turns off controller media screen
Exit- exits to previous page
Kart delays-enables changes all "time settings"
Volume-allows changes to all volume settings



First ad time-is the time after hire start time that the first ad plays
Time between ads-is the time gap between ads playing
Next-to kart delay page 2
Exit-back to first General Setting page



Mat turn off-is the time that the kart will stop a hire if it sees its still on the mat after hire
Minimum hire-is the time after hire hat the sensor will turn on.
Exit-goes back to General Settings main page

Next-goes to Kart delays page 3

```
                Kart delays 3...
?      Next                               Exit      ?
?      Down   Park Time 120 s           Up        ?
?      Down                               Up        ?
```

Park time- is the time from sensor trip to brakes on

Next-goes to kart delays page 1

Exit- goes back to General settings main page

```
                Volume Control
?      Down   Parent Volume 4           Exit      ?
?      Down   Child Volume 18          Up        ?
?      Down                               Up        ?
```

Parent volume-sets the media monitor volume across all karts in the store

Child volume-sets the children's monitor volume across all karts in the store

Exit-goes to General settings main page

Main Menu 2

Kart Control

```

                                Select a Kart
?      Next                      Exit      ?
?      Kart 1                    Kart 3   ?
?      Kart 2                    ?       ?

```

Next-goes to next page if you have more than 4 karts
Kart 1, 2, 3-selects the chosen kart
Exit-goes back to Main menu page 2

```

                                Kart 1 Setup
?      Kart Config                Exit      ?
?      State:                     ?       ?
      Charging                    Statistics
?      Manual                      Kart Errors
      Control

```

Kart config-displays kart "in store" trunk number
State-shows the current "state" of kart
Manual control-allows hire/unhire of kart & code upgrades
Exit-goes back to Main menu page 2
Statistics-shows kart code & full status detail
Kart errors-shows recent errors in kart function

```

                                Kart 1 Config

```

?	Cancel	Commit	?
?	Type-NICK	Parent: ON	?
?	Down	Number: 5	Up ?

Kart 1 Status

State : Charging

Last Ride Time : 0:00:00 Exi ?

Charge Time : 1:35:02 t

Battery Volts : 13.6 V

Battery Current : 0.0 A

Charge State : 100 %

Last Report Time : Mon Jan 15 21:32:46

Kart 1 Manual Control

State : Charging

?	In Service	Exit	?
?	Unhire Kart		
?	Maintenance	Enable Upgrades	?

Kart 1 Statistics

Total cash : 0.00/0 Exi ?

Current State Time 0:00:00 t

```

: 1:19:52
Total Idle Time :
    Total Out Of 1.6
    Service Time : 17:3
Total Hire Time :
    Charge Time : 0:40:38
    Average Hire : 0:30:03
    Hire Counter : 4/0
    Utilization : 9.00 %   Versio
                                ns
    Unavailable : 0.08%
```

Kart 1 Software Versions

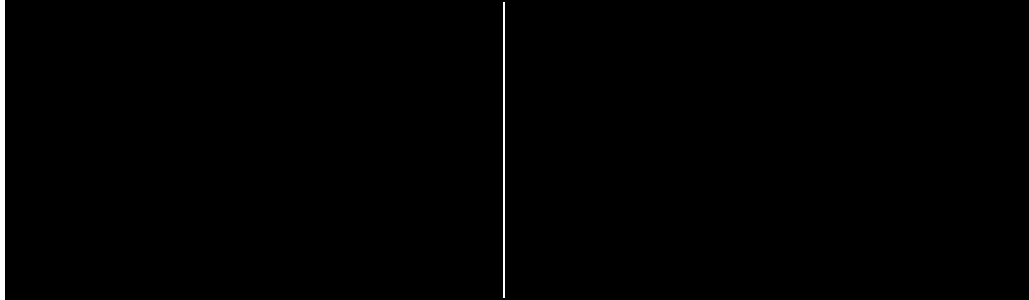
```

Kart Software 3.09
    Version : 3E95
Parent DMP Version 3.02   Exi
                    : 3.02   t
Child DMP Version
                    :
```

Kart 1 Error Status

```

Solenoids OK | Exit ?
```

Main Menu page 2 Store kart summary

Store Kart Summary					
Kart 1	Idle-	71%	V3.08	Exit	?
	OOR	98%	V3.08		
Kart 2	Hired	100%	V3.08		?
Kart 3		100%	V3.06		
	Charging			More	
Kart 4	Idle				

Shows "status" of all karts known by the stand
Exit-goes back to Main Menu page 2
More-shows additional karts

Main Menu page 2 Log History

Log History

```
Wed Jan 17 12:09:18 Kart 1   Exit   ?  
Hire                          Up     ?  
Wed Jan 17 09:47:20 Kart 2   ?  
Unhire  
Wed Jan 17 09:06:18 Kart 2  
Hire  
Wed Jan 17 08:36:24 Kart 2  
Found  
Wed Jan 17 08:36:16 Kart 1  
Found                          Down  
Wed Jan 17 08:36:26 HSN  
Found  
Wed Jan 17 08:36:16 Log  
Init  
Wed Jan 17 08:35:66 Zigbee  
Reset
```

Shows recent logs of all store karts
Exit-goes back to Main menu page 2

Main Menu page 2 More

```
                Welcome to Service mode.  
                Select an option..  
?      Remove Kart      Exit      ?  
?  
                                Back      ?
```

Remove kart-allows you to remove a kart from the store

```
                Remove a Kart  
  
?      Next      Exit      ?  
?      Kart 1      Kart 3*      ?  
?      Kart 2      ?      ?
```