



## **INTRODUCTION**

**Thank you for purchasing your new children's coin operated ride from Northern Leisure Group Ltd. / Kiddy Rides! We trust it will give you many years of profitable service!**

Established in 1986, the Northern Leisure Group of companies is the UK's leading independent operator, dealer, manufacturer, and distributor of children's coin operated rides. Our extensive experience in a wide range of electronic entertainment products has allowed us to offer the ultimate in choice, safety and quality.

Complete customer satisfaction is what motivates us. Being independent allows us to nurture this goal – ultimately giving thousands of children and parents world-wide, the assurance that they are in a safe, clean, and fun environment.

Kiddy Rides supplies a wide range of children's rides for sale, income share, or on a fixed rental basis. As well as supplying the rides, it is responsible for unbeatable after-sales support and service for all Kiddy Rides customers as well as other operators.

Our equipment has been manufactured to the highest standard of construction and safety in order to conform to the H.S.E. Fairground and Amusement Parks, A Code of Safe Practice and the U.K. Health and Safety at Work Act 1974.

All our rides have undergone thorough examinations, and come with a 12 months ADIPS certification of conformity.

The guidance in this manual is relevant to the safe operation of children's rides wherever they may be operated.

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## SAFETY MATTERS

*Northern Leisure/Kiddy Rides* is a registered Inspection Body of **ADIPS** (the Amusement Device Inspection Procedure Scheme), conducting independent examinations and certification of children's coin operated rides in accordance with guidance published by the Health and Safety Executive (HSE). By independent, we mean we are not linked to any particular manufacturer and will apply the guidance with equal diligence, regardless of the type of ride, or its manufacturer. Remember, our aim is to help you comply with the HSE guidelines.

Because of the young age of those who enjoy coin operated children's rides (kiddie rides), safety should be of paramount importance to operators. There is surely a moral duty to safeguard the children that use our industry's products.

Safety doesn't just happen however, it requires commitment from manufacturers, operators and inspectors to ensure high standards. As an operator it is your duty to make yourself aware of safety requirements, especially as failure to comply can lead to injury to children, and furthermore, prosecution. By adopting a few simple procedures and having annual safety checks performed on your rides, you can show yourself to be conforming with HSE and Local Authority guidelines. Also you will gain peace of mind knowing that you have taken active steps to minimize the risks to young children who use your rides.

It is not always easy to find out exactly what is required of an operator. However there are strict guidelines laid down by **BACTA** (British Amusement and Catering Trade Association) entitled *Kiddie Rides; A Safety Guide*. It is produced by a committee of **BACTA** members, some of whom represent manufacturers of kiddie rides themselves. The guide is fully endorsed by the HSE.

In an attempt to highlight the importance of safety within the industry, **ADIPS** has been integrated into the **BACTA** guidelines. This initiative sets out procedures which must be observed by registered Inspection Bodies. Furthermore, **ADIPS** is unified with the HSE *Fairground and Amusement Parks Code of Safe Practice*.

To comply with this, a ride must undergo a thorough examination, and documentation must be issued, be retained, and be available for inspection by the Health and Safety Inspectorate and/or an officer of the Environmental Health Department of the local authority.

Thorough examinations must be carried out at least every fourteen months (annual examinations are recommended).

Certification of rides by approved inspectors will give responsible operators within our industry the credibility they deserve. An **ADIPS** certificate is a badge of excellence, ensuring you have taken all the necessary steps to ensure danger risks are kept to a minimum.

In the past, inspections of children's rides by the HSE appeared to be taking place in response to safety related incidents. However, this is changing rapidly, and it would appear random tests are under way. Inspectors requesting **ADIPS** documentation after a safety related incident is likely to become standard practice.

So, safety first. Don't wait for an accident to happen before you consider the safety of your rides, get them **ADIPS** tested now.

Call +44 (0) 113 2393803

Email: [enquiries@kiddyrides.uk.com](mailto:enquiries@kiddyrides.uk.com)





## **INITIAL INSPECTION**

Upon arrival of the machine, it is important to check the following items:

- a. Damage to external packing.
- b. Physical damage to the ride.
- c. Correct documentation is present.
- d. Ride Serial Number.
- e. Correct main's voltage rating
- f. Coin mechanism currency and credits

Any damage or discrepancies should be reported to your supplier immediately.

## **How The Ride Should Operate**

- a. Read the operators manual fully prior to operating the ride.
- b. Prior to connecting the machine to the mains supply, ensure that it corresponds to the supply rating, which should be stated on a sticker or plate on the rear of the base close to the mains cable outlet.
- c. Upon power up, the lights on the buttons and outer body should illuminate, and begin to flash. An audible message may also be heard, stating the version of software used within the control system. i.e. "Version 8".
- d. Insert the correct coinage for the operation of the ride, after which the start button will flash, and / or an audible prompt will be heard for you to press the start button. If the start button is not pressed within 10 seconds, the ride will begin itself after an audible 10 sec. count down.
- e. Whilst the ride is in operation, check that everything is working correctly, and that there are no unusual noises or vibrations. When the ride has operated for the pre set duration (usually around 90 seconds) the ride will automatically stop. A farewell voice message may be heard, and the ride is once again ready to accept coins.
- f. Make a note of the rides serial number. This is located on the silver manufacturer plate at the rear of the ride. The serial number gives access to essential details of your machine, including your machines parts and history.



### **SITING THE RIDE**

The following conditions must be observed when siting the machine:

- a. The machine must be placed on level ground which is firm and free from any holes etc. Where possible, a non-slip surface would be recommended.
- b. The ride is designed for protected locations. The ride should not be sited in any area where it would be subjected to water splash. The ride, in some circumstances, may be sited outdoors *under a canopy*, which will protect it from rain, although this is **not** recommended.
- c. The machine should be connected to a Residual Current Device (RCD).
- d. The ride should be sited clear from any obstruction. The manufacturer recommends that the machine is sited a minimum of 1.8 metres from any other obstruction or item of equipment.
- e. The ride should be situated as close as possible to the power source, and the mains cable must be safely secured and protected, to eliminate any risk of tripping or damage.
- f. The ride should not be sited in an area where it may cause an obstruction.
- g. Always ensure that the mains plug is accessible, so that the mains power may be isolated in an emergency.

### **ELECTRONIC COIN MECHANISM & START PROCEDURE**

Electronic coin mechanisms or multi-mechs are pre-programmed to accept various coinage denominations, which will be typical of the local coinage used. The electronic timer unit or control board is pre-programmed to give single or multiples of rides, which will correspond to the amount of coinage accepted by the mechanism. The programming also allows for ride discounting (for example: 1 ride for 50p, 3 rides for £1.00). The coin mechanism will accept recognised coins until the programmed price is reached. The start button will then begin to flash, and an audible prompt to "Press start" may be heard.

If the start button is not pressed on rides using the *KERMIT* control system, a 10 second countdown will be heard after the phrase "*the ride is about to begin*". The ride will automatically begin to operate after the 10 seconds have elapsed, commencing with the phrase, "*hold on tight, here we go!*"

### **ELECTRO-MECHANICAL COIN METER**

The ride is fitted with a coin meter which records the number of coins or units accepted by the coin-mech. The meter is located inside the front seat of the ride. This can be viewed through the cash box door.



**STANDARD OPERATION & ADJUSTMENT**

***Kermit II Control System*** – The volume control buttons are located on the side of the control box as indicated by the diagram on the box lid. Here you will find 2 small push buttons, one to turn the volume up “+” and one to turn the volume down “-” (*The power must remain on to adjust the volume settings on this control system*).



**ADJUSTMENT OF RIDE TIME**

The length of time a ride cycle lasts for is mainly dependant on the type of ride. In most cases, the ride runs for the same amount of time as the theme tune or soundtrack (the music played in the background while the ride is in motion). On some models, the ride time can be adjusted via dip switch settings. These are located on the Kermit Control Box, and can be set as the settings shown in the table below. If you have any problems, please contact the manufacturer.

**PRICE OF PLAY**

The price of play is the cost of each turn on the ride, e.g. 1 ride for 50p. The cost per ride and currency is set at manufacture, and the operator’s preference must be stated at the time of purchase. However, if you find it absolutely necessary to have these settings changed at a later date, then it *is* possible. Please refer to the table below. Contact the manufacturer for any support or advice.

*\*Please note that the rides power must be off when changing any switch settings. The power should them be switched back on, once completed, for any changes to take effect.*

**SWITCH SETTINGS ON KERMIT CONTROL BOX**

FUNCTION	SW1	SW2	SW3	SW4
TIME DURATION 90 SEC	OFF	OFF	X	X
TIME DURATION 75 SEC	ON	OFF	X	X
TIME DURATION 60 SEC	OFF	ON	X	X
TIME DURATION 45 SEC	ON	ON	X	X
PRICE/CREDITS 20/1, 50/3, 100/7	X	X	OFF	OFF
PRICE CREDITS 30/1, 50/2, 100/5	X	X	ON	OFF
PRICE CREDITS 50/1, 100/3, 200/7	X	X	OFF	ON
PRICE CREDITS 100/1, 200/3, 400/7	X	X	ON	ON

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## **TAKING CARE OF YOUR RIDE**

All Northern Leisure Group Ltd. rides are manufactured in a high quality Lead Free self coloured GRP. This material can be maintained easily, and kept to a very high standard by taking day to day care of your ride.

## **CLEANING**

To ensure you get the maximum life span from your machine, a day to day clean is recommended. Clean the main areas of the ride with a *damp* cloth rinsed out in soapy water. Ensure the cloth is not drenched in water and avoid any electrical components such as coin-mech, lights, buttons etc. **Do not** hose down or flood the machine! Alternatively, a household furniture polish can also be used, or in cases of an extremely dirty ride, Kiddy Rides recommend using a good automotive cleaning compound. This material is available through Northern Leisure / Kiddy Rides. Do not use any solvent based materials when cleaning your ride.

## **REMOVAL OF BODY SHELL**

The body of the ride is held down to the base in 4 locations. There are 3 in the back, and one in the foot well. *Always disconnect the mains supply before carrying out the removal procedure!*

- a. Remove the rear inspection cover.
- b. Locate the 2 adjacent mounting nuts and washers, which go through the wooden mounting floor towards the rear, and remove them both from the locating studs (a 13mm socket/spanner will be required).
- c. Disconnect all connectors from the control box which come directly from the body's wiring loom.
- d. The third mounting bolt is located inside the front seat of the ride. This is accessed through the cash box door.
- e. The final bolt, unlike the other bolts, is an M8 button Head Bolt. This is visible on the floor inside the ride, close to the entrance and exit of the ride. Remove with a 6mm Hex key.
- f. Carefully lift the rides shell from the base, ensuring no wires are caught or still connected (2 persons or more is recommended as the shell will be heavy).

You are now also able to make a full inspection of the base unit and all components.

## **CARE OF MECHANICAL PARTS**

All the mechanisms used on our Kiddy Rides machines are designed for low maintenance. When the ride is separated and where applicable, all the procedures below should be carried out:

- a. Check condition and tension of Drive Belt (adjust as needed)
- b. Test security and condition of any pulleys.
- c. Check all nuts and bolts remain tight.
- d. Lubricate and check bearings
- e. Inspect motor brushes (D.C. powered motors only)
- f. Ensure all moving parts are free from excess play and wear.
- g. Check overall condition of metal structure

If any guidance as to how to carry out any of the above operations is required, please contact the manufacturer.



### **DAILY CHECKS**

A check of each coin-operated Kiddy Ride should, whenever reasonably practical, be carried out each day before it is made available for public use. The following checks are recommended:

- a. Check that the mains plug is undamaged and securely attached to the mains cable, with no visible wires.
- b. Check the mains cable itself has no damage.
- c. Make sure there are no broken, damaged or sharp parts of the ride which may cause injury.
- d. Check that all covers and guards are in place thus preventing any access to the rides mechanism.
- e. Ensure there is no excess wobble or play from the ride.
- f. Make sure all advisory literature is in place.
- g. Ensure the area around the ride is free from obstruction and that persons passing by are not in any danger.
- h. The ride should be kept clean and free from any customised additions unless approved by the manufacturer.
- i. Insert coins and run the ride to ensure everything is operating correctly.

If as a result of the above visual checks any doubt arises, then the company, supplier, or person responsible for the ride should be notified immediately.







## SPARE PARTS

### HOW TO ORDER

#### **TELEPHONE**

Call us on **+44 (0) 113 2393803**

Confirm your order by 2.00pm and we will ship the same day. If goods aren't in stock, you will be given an expected shipping date before confirming your order.



#### **FAX**

Fax us on **+44 (0) 113 2363194**

Confirm your order by 2.00pm, and we will ship stock items the same day.

#### **POST**

Send us an order by post. If you don't have an account with us, please include payment for the full amount including delivery and VAT.



#### **E-MAIL**

E-mail your order directly to [orders@kiddyrides.co.uk](mailto:orders@kiddyrides.co.uk) or browse our web pages at [www.kiddyrides.co.uk](http://www.kiddyrides.co.uk) and e-mail us directly from there.



#### **METHODS OF PAYMENT**

Subject to approval, we offer thirty day Credit Accounts. Please call for more information. If you are not an account holder, you can post a cheque along with your order.

We would also welcome receiving your payment by BACS direct credit. Please call for more details. Northern Leisure Group also accept payment from all major credit cards.



If you have any queries regarding an account, then please contact us. You can also get information by e-mailing our accounts dept. at [accounts@kiddyrides.co.uk](mailto:accounts@kiddyrides.co.uk)



### **SPARE PARTS cont.**

#### **NO MINIMUM ORDER VALUE**

We want you to order what you want, when you want it. So you can order whatever quantities you like from Kiddy Rides, and you won't be penalized with a minimum order value.



#### **ADDRESS**

All postal communication should be sent to:

**Northern Leisure Group Ltd.  
Unit 3 Kingsmark Court,  
Intercity Way,  
Swinnow,  
Leeds LS13 4LY**

#### **ON-SITE REPAIRS**

If you are unable to return parts for repair, or fit spares yourself, we can arrange for one of our regional engineers to make a site visit. Just call for details.



#### **HOURS OF BUSINESS**

Our office and sales lines are open **Mon – Fri: 9.00am to 5.30pm**. You can still call our number ( +44 (0) 113 239 38 03 ) outside these hours, and leave a message with our pager service.

Alternatively, you can contact us by fax or e-mail.

All goods are supplied on the conditions that Northern Leisure shall not be liable for any direct or consequential damage arising from delay in delivery or from defective material, other than is covered by our usual form of guarantee.

Whilst every effort is made to ensure the accuracy of the particulars contained in this book, modifications and specification changes to kiddie rides are on going. These may affect the information specified.



[www.kiddyrides.uk.com](http://www.kiddyrides.uk.com)

One stop solution from the specialists

Offering expertise in all aspects of childrens coin operated rides, from all manufacturers!



### NEW RIDES

Kiddy Rides supply a wide and varied range of new rides, offering the best choice for safety and quality!

### REFURBISHMENT

Breath new life into second hand rides! Mechanical repairs, bodywork damage repairs, full re-sprays and restorations. We also offer a decal/sticker reproduction service. Our extensive technical experience with a wide range of manufacturers' rides allow us to carry out all electronic repairs in house.



### MAINTENANCE



We carry a wide range of spares in stock for all the major manufacturers. We supply, or fit, mechanical parts, electromechanical, electronic, body parts as well as decals and custom made stickers. We undertake repairs to control systems, printed circuit boards, coin validators, mechanical assemblies and GRP bodywork, all to an exceptional standard!

### OPERATOR

Let us operate in your outlet? Our UK Operator service allows outlets to generate extra profit from unused floor space. Without costing a penny! We have an enviable reputation for safety, reliability, and excellent customer service. We operate a UK wide network of qualified engineers providing the highest quality support.



## SALES, SPARES & REPAIRS, FULL REFURBISHMENT

t +44 (0) 113 239 38 03 f +44 (0) 113 236 31 94 e [enquiries@kiddyrides.uk.com](mailto:enquiries@kiddyrides.uk.com)

**ADIPS**

Amusement Device Inspection Procedures Scheme

Kiddy Rides is a registered body of ADIPS



## FAULT FINDING

To be carried out by a competent person. Ensure volume is turned up for testing purposes.

<u>SYMPTOM</u>	<u>CHECK</u>
No lights / self test message	Mains voltage supply. Mains supply to timer. Faulty Light Chaser Unit. No Power To Light Chaser Unit.
Coins do not accept	No voltage to coin mech. Faulty coin mech. Broken Ribbon Cable
Coins accept but counter / meter does not turn.	Check connections to counter / meter Check cable that runs to the "D" connector on the control box. Check control box.
Ride Will Not Start. Counter / meter turns when coins inserted but will not operate the start button message when the credit is reached.	Check control box and "D" plug connections. Check connections on interface and wiring to start button. Faulty control box.
When start button is pressed, sound Operates but no movement occurs.	Check for mains output to motor from control box whilst the ride is operating. Connect motor direct to mains to see if it runs. Check pulley and Drive belt on the mechanism.
No display on monitor screen	Check there is power to the machine. Make sure all connections to monitor are present and secure. Check there is power to the power supply (located through rear inspection door). Check all output connections from the control box are fit correctly.
Ride permanently runs.	Faulty relay in control box. Check that mains supply is not direct to motor.





## **GENERAL INFORMATION**

### **BODY WORK**

The main body of the ride is made from fully lead free gel coated GRP to ensure the longevity and bright attraction of the ride.

### **COIN MECHANISM LOCATION**

The coin mechanism is mounted into the side of the front seat. This is clearly visible through the entrance to the ride. The plate can be locked and unlocked by a single key. Once the plate is opened, the coin mech. can be easily accessed to aid in the clearance of any jams etc.

### **COUNTER / METER**

Inside the cash door you will find the Counter / Meter. This clocks up the amount of coins which the ride has taken, enabling you to keep an eye on your rides performance. The meter is non resetable and tamper resistant.

### **CONTROL BOX**

The control box, or Kermit, is located inside the rear of the ride. The box is mounted to the back mounting plate of the base. This is accessed through the door at the back of the ride. This can be opened by unlocking the 2 locks fitted to the door. The door has 2 locating pins at the bottom which will simply dislodge when the door is lifted. The control box and its connections are now fully accessible.





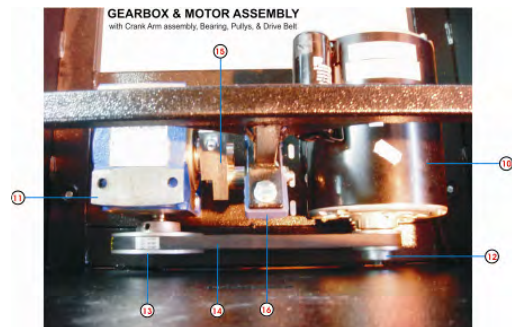
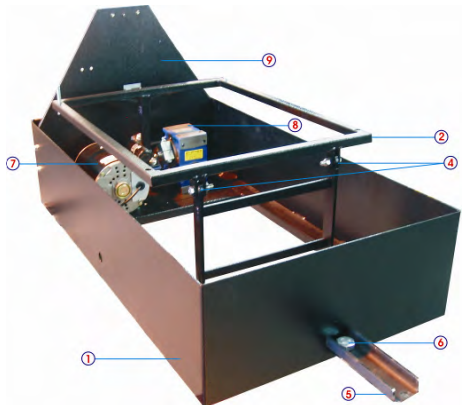
**SPARE PARTS**

1. Please quote the machine description and serial number (if applicable) when ordering Spares for your Kiddy Ride.
2. Also quote the full part number and description of the item as set out in the following lists.
3. State precisely how parts are to be despatched.

U.K.: By post, carrier, or road transport OVERSEAS: Sea freight, air mail or air freight.

*\*Replacement parts which are not of genuine Northern Leisure Group Kiddy Rides supply, cannot be relied upon to be the correct specification, material or quality. Kiddy Rides therefore cannot be expected to extend their Warranty to rides which have been fitted with parts which Northern Leisure has not supplied.*

**A.C. STANDARD BASE**



Description	Qty	Description	Qty
Mechanical Base Shroud (1)	1	Drive Belt (14)	1
Sub-Frame (2)	1	Gearbox Crank (15)	1
Front Pivot (H-Frame) (4)	1	Crank Bearing (16)	1
Front Pivot Bearings (4)	4	NLG Serial Number Plate	1
Towing Eye (5)	1	Back Mounting Plate (9)	1
Towing Eye Bolt Set (6)	1	Motor Bolts - M8 x 30	4
Castors	2	Gearbox Bolts - M8 x 20	4
Base Feet	4	Front Pivot Bolts - M8 x 35	4
Control Box	1	Castor Bolts – M8 x 70	2
Mains Power Lead	1	Crank Bolt – M12 x 90	1
Mains Power Lead Clamp	1	Crank Pinch Bolt – M8 x 50	1
A.C. Motor (240v) (7)(10)	1	Pivot Bearing Bolt – M10 x 40	2
Gearbox (8)(11)	1	Back Plate Bolt	4
Motor Pulley (12)	1	Back Plate Earth Point	1
Gearbox Pulley (13)	1	IEC Inlet socket	1



**BILL OF MATERIALS**

<b><u>DESCRIPTION</u></b>	<b><u>PART NUMBER</u></b>
STEERING WHEEL	TRACSTEER
COINMECH PLATE	BUZZMECHPLATE
COIN MECH.	MECHM33013012S
MINI FACE PLATE	MECHFACE13042
FOOT PLATE	BUSFOOTPLATE
50mm ROUND BUTTON	BUTTCIRC03031
METER (non resetable)	METEBASE53002N
WIRING LOOM	BUSLOOM
SPEAKER	TRACSPEAK81006
SPEAKER BOLT	M4x30 Cup Squ. Hex.
SPEAKER NUTS	M4 Full Nut
SPEAKER WASHERS	M4 Shake Proof
SPEAKER COVER	TRACSPEAKG81007
INSPECTION COVER BOLT	M6x30 Button Cap
LOCKS	LOCKMISC37019
BUTTON DECALLS	BUSBUTTSTIC
BULBS	BULBWEDGE04003
DECALL SET	STICLAZY
LED'S	LAZYLED
KERMIT CONTROL BOX	LAZYKERMIT
LCD MONITOR	10.4LCD
HEADLAMP LENS	TRACLENS
HEADLIGHT BULB	BULBBA9S
MONITOR POWER SUPPLY	LCDP5U
VIDEO LEAD	3MPHONO
EYES	PSPXDISC





**WIRING COLOUR CODES**

**Mains Cable:**

Brown  
Blue  
Yellow / Green

**Size 3 x 1.5mm**

Live  
Neutral  
Earth

**Connection**

IEC Plug (Female)

**Motor Supply Cable**

Brown  
Blue  
Yellow / Green

**Size 3 x 1.5mm**

Live  
Neutral  
Earth

IEC Plug (Male)

**12v Circuit:**

Start  
Start / Return (common)  
Start Lamp  
Start Lamp  
Counter  
Counter  
Speaker +  
Speaker -  
Pushbutton 1  
Pushbutton 2

**Size 16 x 0.2mm**

Pink  
Black  
Red  
Brown  
Blue  
White  
Black  
Black / White  
Green  
White

**Connection**

25-way D-Type Connector  
25-way D-Type Connector  
25-way D-Type Connector  
25-way D-Type Connector  
25-way D-Type Connector  
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25-way D-Type Connector

**Lamps:**

12v Flasher  
12v Flasher

**Size 16 x 0.2mm**

Yellow  
Yellow

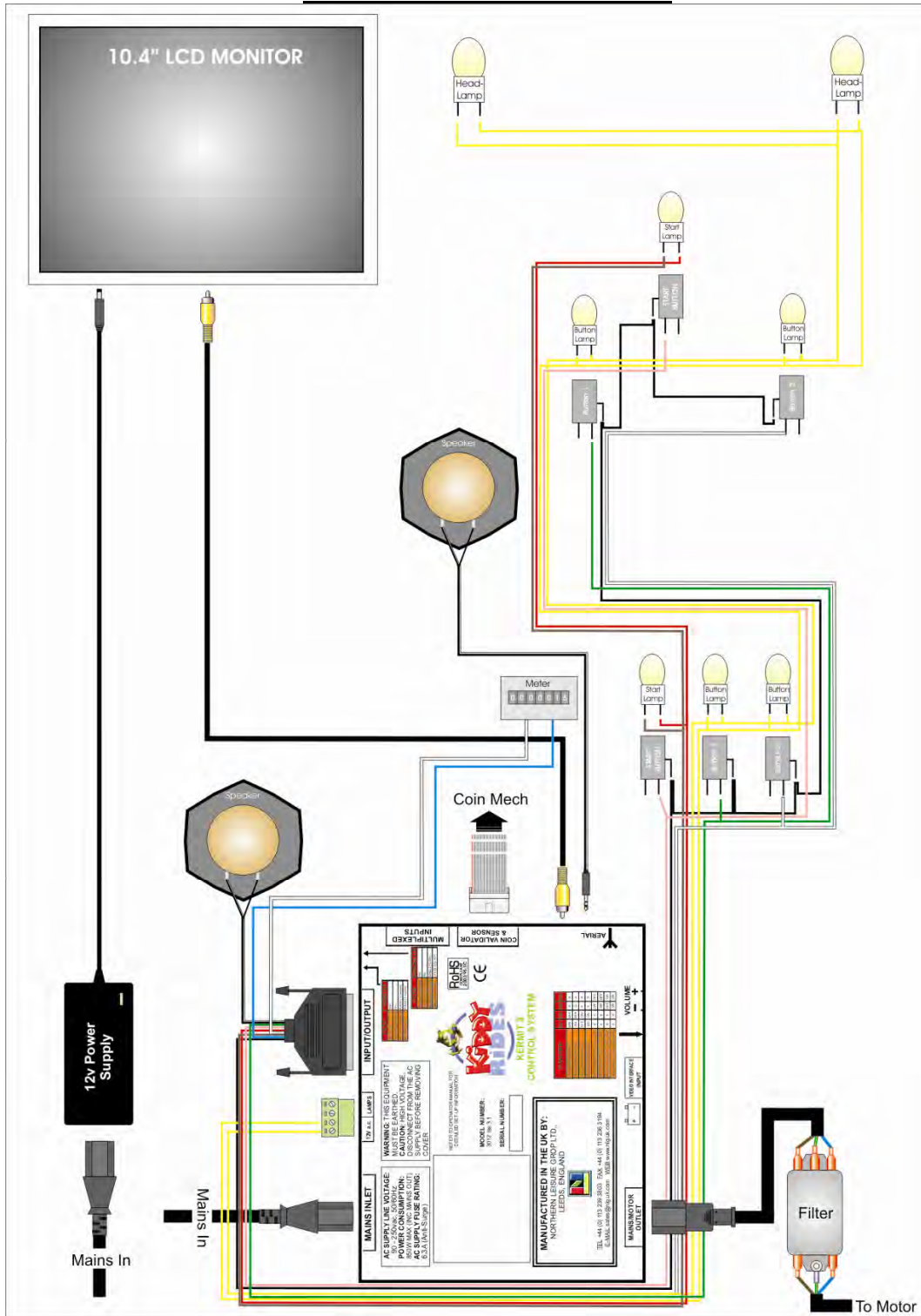
**Connection**

4-way Control Box Connector  
4-way Control Box Connector

Please see diagram on next page for further reference.



### BIG RED BUS WIRING DIAGRAM





YOUR NOTES

RIDE HISTORY / LOG

<u>DATE</u>	<u>DETAILS / ACTION TAKEN</u>	<u>SIGN</u>	<u>PRINT</u>





