



General User/ Safety Guide
**PRIME COMFORT
ACTIVE MATTRESS**



www.easycare systems.co.uk



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WARNINGS & CAUTIONS



READ THIS INSTRUCTION MANUAL AND OBSERVE SAFETY INSTRUCTIONS.



WARNING

- This mattress must be properly installed and operated as directed by this user manual.
- The system should be checked regularly to ensure correct operation. Loss of function will remove all pressure relieving properties this system provides.
- This mattress is intended for use as part of a pressure ulcer prevention program; do not rely solely on this device to achieve the result. The medical professional is responsible for applying best medical judgment when using this system.
- Select the correct setting for the occupant's weight and therapy required (see **page 15**). Care should be taken not to accidentally change pressures once set as the effectiveness of the therapy may be reduced.
- In order for alternating air pressure range to be effective, avoid placing objects on the surface that may obstruct the movement of air between the cells. For the same reason, discourage people from sitting on the edge or on the end of the mattress whilst it is in use.
- All hoses must be free of kinks, twists and must be properly connected and positioned so as not to cause any obstruction.
- Do not position the system in a way that prevents access to the disconnection device (mains power plug).
- Ensure the mains lead or pump cannot become trapped or crushed, e.g. by raising or lowering of bed or bed rails or any other moving object.
- Check the mains lead is damage free and positioned so as not to cause an obstruction, or injury, e.g. Strangulation or trip hazard.
- Ensure that the electricity supply is of the type stated on the pump unit.
- Protect the mattress from open flames. Ensure that the mattress is not used in the presence of flammable anaesthetics.
- Do not place device on or near a heat source. Do not cover the pump unit with bedding.
- Harvest Healthcare advise against smoking whilst the system is in use, to prevent the accidental ignition of associated items which may be flammable, such as bed linen.

WARNINGS & CAUTIONS

- Do not expose the pump to liquids.
- Do not use with hot water bottles or electric blankets.
- Wireless equipment such as mobile phones should be kept at least 10ft / 3m away from the system.
- Do not allow sharp objects to puncture the mattress material.
- The mattress and pump should be cleaned between patient uses.
- Do not use bleach, chlorine releasing agents in concentrations over 1000 ppm, solvents or alcohol-based cleansers, e.g. Phenicol, Hibiscrub, Clearsol, Stericol, Hycoline as these will destroy the mattress material. Full cleaning instructions can be found on **page 16-17**.
- Suitable for continuous use.
- Do not modify the mattress or pump unit in any way.
- Do not connect to any other medical device or equipment.
- Not for use in an oxygen enriched environment.
- Not for use in an outdoor environment.
- Store the mattress in a clean and dry environment, out of direct sunlight.



Electrical equipment can be hazardous. Only authorised technical personnel should repair or service the pump unit. Removal of the case by unqualified personnel will invalidate the warranty.



Before cleaning the unit ensure that the electrical supply to the pump has been disconnected by removing the plug from the power supply.



Do not use this system for lifting the patient. This will damage the system and could put the patient at risk.



This product is fire rated. The mattress cover material on the mattress is tested to BS7175:1989 Crib 5. Use of this product should be subject to a risk assessment in which all hazards are considered.

GENERAL INFORMATION



BEFORE USING THIS SYSTEM FOR THE FIRST TIME:

- **Read through this instruction manual conscientiously from start to finish.**
- **Please note that the various safety instructions must be observed.**

Harvest Healthcare products bear the CE mark and meet all safety and functionality requirements.

These safety requirements can only be met if the user is satisfied with the proper condition of the product (including accessories) before use.

GENERAL INFORMATION

The **Prime Comfort Active Mattress** is a replacement alternating pressure relieving mattress which combines both static and active mattress technologies. The mattress is used in the prevention and treatment of pressure ulcers, and is recommended for use by a patient who is at risk from developing pressure sores. The mattress is fitted with a vapour permeable two way stretch cover.

By using the established principles of alternating therapy, the **Prime Comfort Active Mattress** offers the patient comfortable and relaxing support that can both prevent tissue breakdown and enhance healing.

The **Prime Comfort Active Mattress** is made up of 10 individual alternating air cells which are surrounded and by a high resilience foam and topped with a castellated foam top.

The alternating cells are split into 2 sections - odd cells e.g. 1,3,5 etc and even cells e.g. 2,4,6 etc. These two sections will alternate through a 10 minute cycle in which time both sets of air cells will have inflated and deflated sequentially. All air cells are individually replaceable should any damage occur.

GENERAL INFORMATION

1 DEFINITION OF THE GROUPS MENTIONED

OPERATOR

An operator is any natural or legal person who uses the equipment or on whose instruction it is used (e.g. nursing homes, specialised retailers, health insurance companies, medical suppliers).

USER / CARE PERSONNEL

Users are persons who as a result of their vocational training, experience or briefing are authorised to operate the equipment.

Furthermore, the user/ care personnel can recognise and avoid potential dangers and assess the clinical condition of the service user.

PATIENT / OCCUPANT / SERVICE USER

The person in need of care, handicapped or infirm.

QUALIFIED PERSONNEL

Qualified personnel are employees of the operator who as a result of their vocational training or briefing are entitled to deliver, assemble, disassemble and transport the product.

2 NON-COMPLIANT USE

All uses deviating from the intended purpose, which may also be hazardous as a result. This includes for example:

- Incorrect installation.
- Operation by persons who have not been instructed in its use.
- Using the system with non-approved parts/accessories.
- Using the system if any of the components are damaged or faulty.

3 SAFETY INSTRUCTIONS

3.1 GENERAL SAFETY INSTRUCTIONS



During the briefing, specific attention must be drawn to any potential dangers which can occur despite correct operation. Before putting the product into service for the first time, the Instruction Manual must be read conscientiously and in detail by the user / care personnel.

GENERAL INFORMATION

Programming of the system should be carried out by competent trained personnel. Use only spares and accessories supplied or approved by Harvest Healthcare. Only suitably trained personnel are allowed to operate the system.



The mains cable must be free and not be allowed to be caught up in the bed's moving mechanisms. The mains cable may be damaged or it may be pulled out of its socket and electric leads exposed as a result.

If the mains cable or the mains plug are damaged, the relevant part must be replaced. This work should be carried out by the manufacturer or authorised service agents.

When connecting the mains plug do not use multiple sockets since liquids may penetrate into these (fire hazard and electric shock).

3.2 SAFETY INFORMATION FOR THE OPERATOR



With the help of this Instruction Manual, instruct each user in the safe operation of this mattress before it is put into service for the first time.

Advise the user of any hazards which may occur if not handled correctly.

Only persons who have been properly instructed may operate this mattress. This also applies for persons who only operate the system on a temporary basis.

3.3 SAFETY INFORMATION FOR THE USER

Ensure the operator instructs you in the safe operation of this system.

In addition, pay particular attention to the Warnings and Cautions (**page 4-5**) and the general safety information as described in **3.1**.

If there is a suspected fault or damage, unplug the mains plug from the socket. Clearly mark "Out of Order" and take out of service immediately, and inform the person in charge without delay.

GENERAL INFORMATION

3.4 SYMBOLS USED



This symbol indicates general hazards. There is a danger to life and health.



Conformity mark in accordance with the Medical Device Directive (93/42 EEC).



The symbol for Protection Class II device, double insulated.



The symbol for type B device according to EN 60601-1.



Handle with care



This way up



Keep dry



Recycling symbol. Refers to packaging that can be recycled (cardboard)



Fragile, handle with care



This product must be disposed of in a designated refuse bin for waste electronic devices (WEEE) in the European Union. Do not dispose of as normal domestic waste.



No smoking. No naked flames.



Read instructions / consult manufacturers guide



This symbol indicates electrical hazards. There is danger to life and health.

GENERAL INFORMATION

3.5 CLEANING & DISINFECTION



Do not immerse electrical components in water but wipe with a damp cloth only. The electrical components must not be cleaned with a high-pressure cleaner or water jet. Disinfection by wiping only is allowed.

Full cleaning and disinfection instructions can be found on **pages 16-17**.

3.6 SERVICING & MAINTENANCE



Servicing must only be carried out by qualified personnel.

A technical check and/or safety inspection must be conducted at least once a year and after a lengthy break in use.

Any defects, damage or signs of wear must be rectified without delay. Only original spare parts from Harvest Healthcare may be used, otherwise all guarantees or warranties will be excluded.

See **pages 18-19** for Routine Maintenance and Servicing.

3.7 SERVICE LIFE & DISPOSAL



The system must not be disposed of as normal domestic waste after its service life, but must be disposed of in a designated refuse bin for waste electronic devices (WEEE) in the European Union. Do not dispose of as normal domestic waste.

Our Full Terms & Conditions including product warranties are available by request or can be found on our website www.harvesthealthcare.co.uk.



PARTS AND DATA MAY UNDERGO FURTHER DEVELOPMENT AND THEREFORE DEVIATE FROM THE DETAILS GIVEN.

TECHNICAL SPECIFICATION

PRIME COMFORT ACTIVE TECHNICAL SPECIFICATION

Product Code	HHMPRIMA
Pressure Sore Risk Level	High Risk
Maximum Patient Weight:	39 Stone / 247 kg
Inflated Mattress Dimensions	2000 x 900 x 140 mm
Mattress Weight	14 kg

OVERVIEW

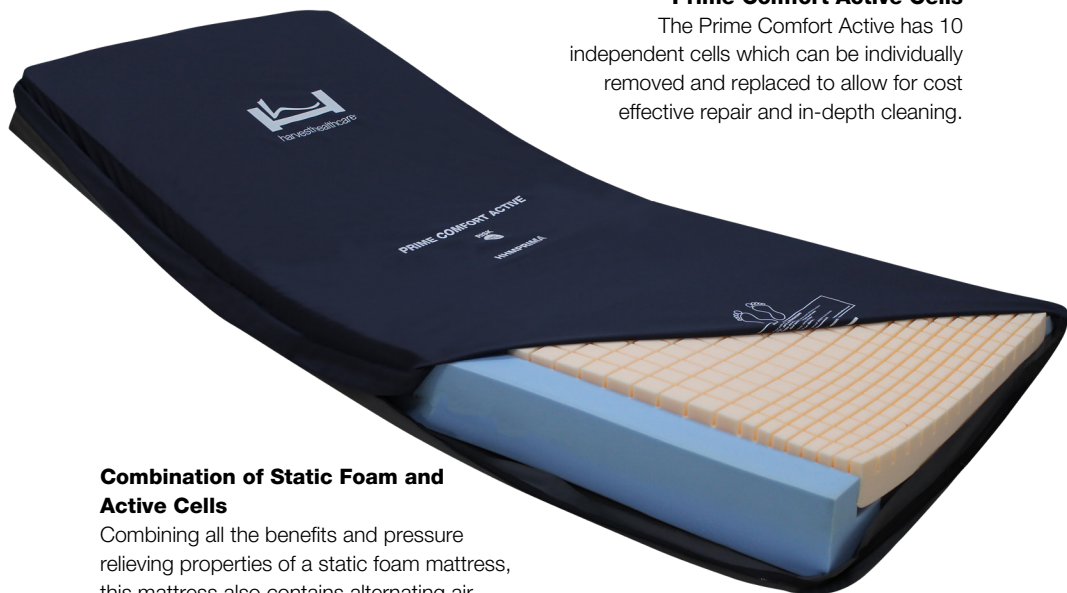
MATTRESS OVERVIEW

Mattress Cover

The cover comprises of a two-way vapour permeable and a welded stretch PU top with a durable base fabric.

Prime Comfort Active Cells

The Prime Comfort Active has 10 independent cells which can be individually removed and replaced to allow for cost effective repair and in-depth cleaning.



Combination of Static Foam and Active Cells

Combining all the benefits and pressure relieving properties of a static foam mattress, this mattress also contains alternating air cells but can be used with or without the pump.

INSTALLATION

INSTALLING THE PRIME COMFORT ACTIVE SYSTEM

- 1** Remove the mattress from its packaging and lay the parts out on the floor. You should have the following items:
 - Mattress with feed tubes attached
 - Instruction booklet



If you intend to keep this mattress in storage please retain the packaging. This will lengthen the life of the mattress.



Prior to installing the mattress, check that there are no protruding/ sharp objects which may puncture the cover or air cells.

- 2** Carefully place the mattress on to the mattress platform. Ensure the pipes at both the head and foot ends are kink free to prevent restriction of air flow. Ensure the air tubing to the pump is at the foot of the bed.
- 3** Please ensure that the mattress is correctly sized for the bed and that the mattress is positioned (using the mattress guides) onto the mattress base before operating the bed.



Care must be taken when fixing the mattress to the bed frame.

OPERATION

INFLATING THE MATTRESS

- 1 On start up, plug in the pump. Switch the pump On. Refer to pump guide for further instruction.



Set the pump to run at the correct pressure to suit the weight of the service user. Refer to the Comfort Control Guide located on the front of the pump.

DEFLATING THE MATTRESS / CPR VALVE & SWITCHING OFF THE SYSTEM



If rapid deflation is required, simply disconnect the pump from the mattress.



To turn off the system; press the power button to OFF and unplug from the mains supply.

TRANSPORT MODE

If the pump needs to be disconnected for any reason, attach the transport cap to the feed pipes connector. This will prevent deflation retaining the remaining air within the mattress.

The alternating action stops in this mode.

OPERATION

SETTING PROCEDURE

It is important to follow the correct setting procedure to ensure the patient receives sufficient support whilst achieving maximum pressure relief and comfort.

Failure to follow this procedure could result in the patient being put at risk.

- 1** Position the patient in a lying position on the mattress.
- 2** Set the pump to Service User weight. Ensure when the patient alters from a lying position to a sitting position, the comfort setting is altered correctly.
- 3** If a patient is being moved to a sitting position, the comfort control dial should be moved to as if the patient were 10kg heavier, e.g. if a patient is 50kg, when this person is sitting the comfort dial will need to be increased to the 60kg setting.



The static mode is only to be used for patient care. Switch off after use.

CLEANING & CARE



WARNING

Ensure that the mains power supply to the pump is disconnected before cleaning.

Eye protection, gloves and protective clothing should be worn when carrying out cleaning and disinfection procedures.

When disinfecting the system, Harvest Healthcare recommends the following guidelines which have been developed to comply with recognised infection control procedures. These procedures are also to be used to prevent cross infection when transferring the system between patients.

MATTRESS

During general use the mattress and internal tubes can be cleaned by wiping with a mild detergent solution.

Where necessary the mattress cover can be removed for laundering or sterilisation. Where there is staining or body fluids on the mattress, cells or tubing, wash thoroughly with soap and water, then wipe with a sodium hypochlorite solution diluted to 1000ppm before laundering.

Mattress covers may be laundered as follows:

- 1** Pre-wash Cold 10 minutes
- 2** Main Wash 80°C 10 minutes
- 3** Followed by cold rinses and extraction.



Do not use abrasive cleaners, phenol disinfectants, solvents or alcohol-based cleansers, e.g. Dettol, Phenicol, Hibiscrub, Clearsol, Stericol, Hycoline, as these will damage the cover materials.



Do not iron.



Ensure that the mattress/foam is thoroughly dried before remaking the bed or placing in storage.



HYPERCARBONATE AND PHENOL-BASED SOLUTIONS SHOULD NOT BE USED AS THESE WILL DAMAGE THE MATTRESS COVER.

CLEANING & CARE

PUMP

For general cleaning wipe with a soft cloth dampened with a mild detergent and water solution. This may be followed by either wiping with a sodium hypochlorite solution to a dilution of 1000ppm (parts per million) or by using alcohol wipes.



DO NOT USE HYPERCARBONATE, PHENOL-BASED CLEANING SOLUTIONS, ABRASIVE COMPOUNDS OR CLEANING PADS.

NOTES

- Following the use of a detergent and or disinfectant solution rinse the mattress cover with clean water using a clean cloth and allow to dry.
- Frequent or prolonged exposure to high concentrations of disinfectant solutions will reduce the useful life of the mattress cover.
- Where high concentration disinfectants e.g. > 10,000ppm chlorine releasing agent (e.g. Haztab or bleach) or combined cleaning/chlorine releasing agent (e.g. Chlorcleam, Actichlor) and detergent solutions are used to remove blood or other body fluids, mattresses should be thoroughly rinsed with clean water to remove any residues. This will help prevent any long term compatibility issues associated with disinfectant residues.
- Alternatively, disinfection may be achieved by laundering at temperatures not exceeding 80°C for 10 minutes which may include a chlorine rinse.

TRANSPORT & STORAGE

Storage conditions as follows:

-15 °C without relative humidity control; and +40 °C at a relative humidity up to 93%, non-condensing. An atmospheric pressure range of 700 hPa to 1 060 hPa. Suitable for all standard modes of transport when in the correct packaging.

Operation Conditions:

A temperature range of +5 °C to +35 °C; A relative humidity range of 15% to 93%, non-condensing; and Operational Atmospheric Pressure: 700 hPa to 1060 hPa. Suitable for pollution degree 2. Operational altitude ≤ 2 000 m.

Transportation of the mattress system:

The mattress should be loosely rolled lengthwise with the cover innermost, taking care not to strain the feed pipes. It can then be stored / transported in the carry bag with the pump, mains cable and this booklet. Do not stack bagged mattresses more than two high.

ROUTINE MAINTENANCE

These checks should be carried out at each decontamination process, i.e. between patients or patient occupancy and weekly for longer term patients.

MATTRESS

The mattress cover, which is made from waterproof and vapour permeable material, should be kept clean. Take care to avoid puncturing cover with sharp objects whilst performing the maintenance checks:

- 1** Remove cover and inspect for damage, tears or staining, which could lead to contamination of the internal parts.
- 2** Check that the zips are sound and in good working order.
- 3** Check that all connectors are fitted properly to prevent leaking of air.
- 4** Check that all cells are attached to the base sheet by the pop fittings provided.
- 5** Check the stitching on the straps and the seams to ensure no tearing or fraying has occurred.

PUMP

- 1** Check the pump casing for cracks or other damage that could be dangerous.
- 2** Check the power cord (ensure there are no bare wires).

If any faults are detected report to your distributor for replacements to facilitate repairs.

COMPONENTS

- Check air cells and mattress interior for signs of damage or contamination, e.g. staining or fluid ingress at each decontamination process, i.e. between patients or patient occupancy (or weekly for longer term patients).
- The individual cells can be wiped clean with a mild antiseptic solution.
- All cells are replaceable and can be sourced from Harvest Healthcare.

POWER UNIT

Disconnect the power unit from the electricity supply before carrying out maintenance, repairs or cleaning.

Check all electrical connections and power lead for signs of wear and damage. The power unit can be wiped down with detergent, disinfectant solution or wipe*. Do not use solvents. Unsuitable for sterilisation.

ROUTINE MAINTENANCE

- * In line with the MHRA Medical Device Alert (MDA/2013/019), Harvest Healthcare advises customers to use pH neutral, high-level disinfectant cleaning products to sanitise reusable medical devices to prevent damage to materials and the degradation of plastic surfaces after prolonged use.
- The use of inappropriate cleaning and detergent materials on medical equipment could damage surfaces and may compromise the ability to decontaminate medical devices adequately or may interfere with device function

At end of use dispose of the pump / mattress in accordance with the local regulations including WEEE requirements, which apply to the pump and SMPS only.

SERVICING YOUR SYSTEM

The Prime Comfort Active system should be serviced every **12 months** by Harvest Healthcare approved personnel using genuine Harvest Healthcare spare parts.



Failure to follow the service schedule may invalidate future warranty claims (Gurantees & Warranties can be found on page 22).

TROUBLE SHOOTING

FAULT	CHECK THAT	STAGE 2 CHECK	IF PROBLEM PERSISTS
<p>Pump shows no indication that it is powered up</p>	<ol style="list-style-type: none"> 1. Mains plug is plugged in and power switched on. 2. The power switch on the pump is switched on. 3. The fuse in the mains plug is not blown. 4. The wall socket that the pump is connected to is working correctly 	<ol style="list-style-type: none"> 1. Connect the pump to the nearest (working) mains outlet. 2. Replace the fuse in the plug with the correct 5A fuse. 3. Try a different device in the mains outlet 	<p>Contact Harvest Healthcare technical support.</p> <p>Before calling:</p> <p>Please ensure you have the serial number and model of equipment.</p> <p>Please record details of the results of the recommended tests. (Notes pages are provided at the back of this user manual).</p>

FAULT	CHECK THAT	STAGE 2 CHECK	IF PROBLEM PERSISTS
<p>Some of the cells appear to be deflated.</p>	<p>This is normal for alternating pressure therapy.</p> <p>The mattress is made up of individual air cells. The alternating section is split up into 2 sections consisting of odd cells e.g. 1,3,5 etc and even cells e.g. 2,4,6 etc. These two sections will alternate through a 10 minute cycle in which time both sets of alternating air cells will have inflated and deflated sequentially.</p>		
<p>The system does not appear to be alternating.</p>	<ol style="list-style-type: none"> Carefully mark one of the inflated cells with a pen. Ensure that there are no kinks in the pipework down the side of the mattress 	<ol style="list-style-type: none"> Monitor the cell for 7 minutes to see if it deflates. Straighten out any kinked pipes. 	<p>Contact Harvest Healthcare technical support.</p> <p>Before calling:</p> <p>Please ensure you have the serial number and model of equipment.</p> <p>Please record details of the results of the recommended tests. (Notes pages are provided at the back of this user manual).</p>

TROUBLE SHOOTING

FAULT	CHECK THAT	STAGE 2 CHECK	IF PROBLEM PERSISTS
<p>The Pump appears to be running but the mattress is not inflating correctly and or the low pressure light is illuminated.</p>	<p>PLEASE NOTE Inflation can take up to 30 minutes.</p> <ol style="list-style-type: none"> The hoses are routed correctly (not kinked) and connected to the pump correctly. 	<ol style="list-style-type: none"> Disconnect and then re-connect the hoses to the outlet on the side of the pump. 	<p>Contact Harvest Healthcare technical support.</p> <p>Before calling:</p> <p>Please ensure you have the serial number and model of equipment.</p> <p>Please record details of the results of the recommended tests. (Notes pages are provided at the back of this user manual).</p>
	<ol style="list-style-type: none"> There are no leaks in the mattress. The tubes in the mattress are not disconnected or kinked. 	<ol style="list-style-type: none"> Replace any damaged or leaking mattress parts with the correct genuine Harvest Healthcare spare parts. Straighten out any kinked pipes and reconnect any disconnected joints. 	

FAULT	CHECK THAT	STAGE 2 CHECK	IF PROBLEM PERSISTS
<p>The pump is vibrating or making excessive noise.</p>	<p>The pump is fitted to the bed correctly</p>	<p>Reposition the pump unit.</p>	<p>Contact Harvest Healthcare technical support.</p>
<p>The mattress is uncomfortable.</p>	<p>Check the comfort setting on the pump.</p>	<p>Set the pump to the correct setting using the guide on the front of the pump case.</p>	<p>Before calling:</p> <p>Please ensure you have the serial number and model of equipment.</p> <p>Please record details of the results of the recommended tests. (Notes pages are provided at the back of this user manual).</p>

PARTS LIST

APPLIED PARTS

HHMPRIMA.P1
HHMPRIMA.P2

Prime Comfort Active Mattress

HHMPRIMA.F

Prime Comfort Active Base Foam

HHMPRIMA.C

Prime Comfort Active Top Cover and Base

GUARANTEES & WARRANTIES

MATTRESS (COVER AND INTERIOR COMPONENTS)

All Harvest Healthcare Ltd Mattresses are covered by warranty for a period of 3 years from date of purchase. Damage through incorrect use and penetration by sharp instruments will invalidate this warranty.

GUARANTEE

Harvest Healthcare Ltd guarantees to repair or replace all goods supplied to its customers which are found to be defective whilst still in their applicable warranty period. All warranties are subject to the following conditions:

- a** Warranty/guarantee is subject to all guidelines being adhered to.
- b** That the equipment has been used for the purpose for which it was intended.
- c** That the usage has been on a fair wear and tear basis. This does not include user damage.
- d** That Harvest Healthcare Ltd's cleaning/disinfecting guidelines have been followed.
- e** Harvest Healthcare Ltd's maintenance guidelines have been followed (Please refer to the product manual).
- f** That ALL maintenance has been carried out by a suitably qualified and competent person.
- g** That all parts used are OEM (Original Equipment Manufacturer) parts and were supplied by Harvest Healthcare Ltd either directly or through a distributor.
- h** All warranties begin from the time the product leaves the premises of Harvest Healthcare Ltd.
- i** All repairs and replacements will be at the sole discretion of Harvest Healthcare Ltd.

Our standard terms and conditions of sale can be found on our website or by request to Harvest Healthcare Ltd.

If this device malfunctions and a serious incident occurs please contact Harvest Healthcare Ltd or your competent authority. A member of our service team will be happy to help you and offer advice.





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