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MERCURY SMART SOCKET FEATURES

Before installing your Smart Socket, take a moment to understand its main features

"Mercury" light

- When the green light comes on your call is being routed

via Mercury, saving you money

"Set" button

- Use this to program the device

"Power Light"

-The Smart Socket will work when this red light is on

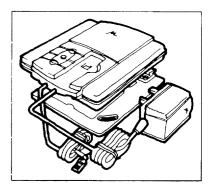
Telephone Port

- Can also be used to connect fax machines and modems

3 metre power lead

- terminated with a Transformer/3 Pin Plug

2 metre telephone lead - terminated with a Jack Plug and Blue Tag



GETTING READY TO USE YOUR MERCURY SMART SOCKET

Before you can use your Smart Socket you must

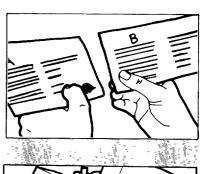
- Check that you have a standard BT telephone socket fitted (as shown in the middle picture on page 4) If you do not, complete the enclosed postcard and send it to your nearest British Telecom Sales Office
- Register as a Mercury Customer by sending away the enclosed application form Current customers may use their existing PIN code (authorisation code)

Mercury will send back your PIN code via two seperate envelopes in about ten days

When you have received <u>both</u> parts of your PIN code you can set up the Smart Socket for use

Lay out the product in front of you on a table or the floor near to both a power point and a standard BT telephone socket. You should have the following items

- The Smart Socket
- A 3-pin plug with built in transformer
- A jack plug to connect to the standard BT telephone socket
- The wall mounting bracket
- Parts 1 and 2 of Your PIN code
- Now go to "HOW TO CONNECT FOR PROGRAMMING"





HOW TO CONNECT FOR PROGRAMMING

Do not connect the Smart Socket to an extension of a PABX or Keysystem

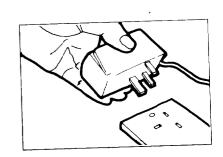
You are advised not to fit the wall bracket yet Connect up and program the Smart Socket first, then fix it in place

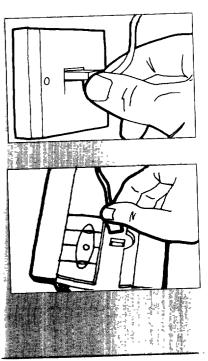
First disconnect your telephone or fax machine from the standard BT telephone socket and replace it with the jack plug of the Smart Socket (lead with the blue tag)

Plug the transformer into a power point and switch on The red "Power" light on the Smart Socket will glow

Connect <u>only</u> your telephone to the telephone port at the front of the Smart Socket Your Smart Socket is now ready for programming

Now go to "HOW TO PROGRAM YOUR PIN CODE"





HOW TO PROGRAM YOUR PIN CODE

To program the Smart Socket you must use a telephone

Ensure that the red "power" light of the Smart Socket is on

Lift the telephone handset

Press the "set" button on the Smart Socket (you will hear beeps via the telephone handset)

Using your telephone keypad, press digit '1' followed by your PIN code (Part 1 followed by Part 2)

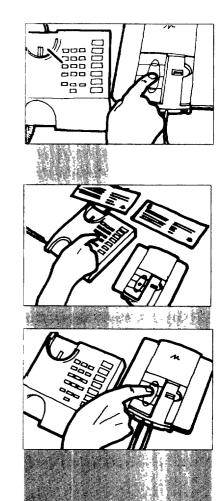
Wait for the green "Mercury" light to come on

Press the "set" button on the Smart Socket again (you will hear more beeps)

Replace your telephone handset

Having entered your PIN code you must program your local area dialling codes

Now go to "LOCAL AREA DIALLING CODES"



LOCAL AREA DIALLING CODES

Local calls are more expensive over Mercury Therefore to prevent them from being sent over the Mercury Network, the Smart Socket must be programmed to recognise the local dialling codes for your area This can be done very simply as follows

Have Part 1 or Part 2 of your PIN code ready

Lift your telephone handset Press the "set" button (you will hear beeps in the handset)

Press the "set" button again (you will hear further beeps)

Using your telephone keypad, enter your local STD code as printed on your PIN code documents

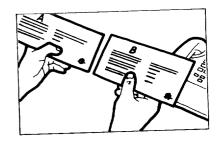
Wait for the green "Mercury" light to come on

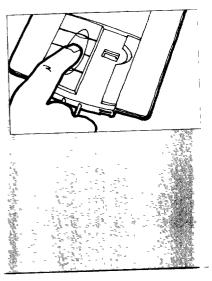
Press the "set" button on the Smart Socket again (you will hear further beeps)

Replace the telephone handset

For customers who have selected the Cost Centre Code option please turn to page 14.

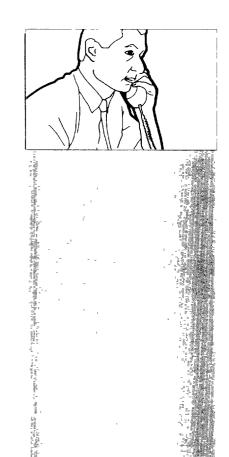
Now go to "TEST CALL"





TEST CALL

- * To confirm that your Smart Socket has been programmed correctly, dial 1500. This call is free.
- * After a few seconds, you will be connected to a recorded confirmation announcement. The green "Mercury" light on the Smart Socket should also come on and remain on for the duration of the call
- * If this does not happen you have probably made a programming error Please go back to Page 5 "HOW TO PROGRAM YOUR PIN CODE"
- * If you still have difficulty, see Page 13, "IN CASE OF DIFFICULTY"



USING YOUR MERCURY SMART SOCKET

Having made a successful test call, you may use your telephone or fax machine in exactly the same way as normal

If you lift the handset, you must start to dial within 10 seconds in order to connect with the Mercury Network

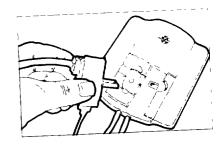
Every time a call is sent via the Mercury Network the green "Mercury" light will come on

Fax Users

If you intend to use the Smart Socket with apparatus other than a telephone, (for example, a fax machine) simply replace the telephone with that apparatus

Your fax lead may be terminated with an adaptor of the type shown You may have a telephone already connected to this adaptor for use with the fax machine If so, disconnect the phone you used to program the Smart Socket and insert the fax adaptor in its place

NOTE The green "Mercury" light will not come on for local calls because these are sent via the BT Network THIS IS NOT A FAULT



LOCATION DO'S AND DON'TS

It is reassuring to see the Smart Socket switched on and in particular to see the Mercury light come on and know you are saving money on many calls. So think about the best viewing location. Move the box around. Will the leads allow you to reach your preferred site? Avoid strain on the cables. Try to make sure that cables are run vertically or horizontally. Here are some suggestions, about possible locations.

- * Above Desks Visible at eye level or beside telephones or fax machines
- * <u>Below Desks</u> between the 3-pin plug and the BT socket Wall mounted above skirting board level

NOTE Using the wrong location could cause your Smart Socket to malfunction The following situations are to be avoided

- * Do not fix in direct sunshine or close to a heater system
- * Avoid extremes of temperature, especially heat
- * Avoid high humidity or smoke from oil or cooking egilikitchens
- * Do not locate near to photocopiers, televisions or microwave ovens sources of electromagnetic radiation
- * Avoid using the same power point as those being used for televison, radio, stereo
- * Do not plug the transformer into a multi-way power adaptor

If you are wall mounting, choose and mark the site then follow the instructions **"HOW TO FIT ON THE WALL**"

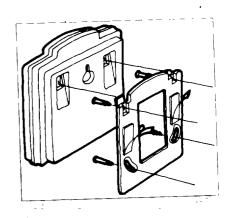
HOW TO FIT ON THE WALL

Mount the bracket by either

- i) Peeling off the adhesive tape protection and sticking it to the wall
- II) Using the screws and wall plugs provided making sure you put it on squarely Care should be taken when drilling the wall to avoid concealed power cables, pipes etc

Alternatively the Smart Socket can be hung via a single screw hooked into the slot on the rear of the box

NOTE You should make sure that the wall surface onto which you will be mounting is dry, grease free and in good condition. Crumbling plaster and flaking paint should be avoided



YOUR QUESTIONS ANSWERED

- Q1 If I think a mistake was made during the programming sequence what should I do?
- A1 Simply replace the handset and try again. If you continue to have problems, call Mercury Customer Assistance (MCA) at any time of the day or night on 0800 424 193. This call will be free of charge.
- Q2 Why doesn't the green "Mercury" light always come on when I make a call?
- A2 The green light will only come on when the call is being routed over Mercury, ie, when you make long distance national and international calls
- Q3 What happens if the Smart Socket is switched off?
- A3 If the red power light is off you will not be able to have any calls routed over the Mercury Network However, if you had previously programmed the Smart Socket with your PIN code, you will not need to reprogram it when you switch the power on again Simply switch the Smart Socket on and continue to use as normal
- Q4 Do I need to change any existing telephone equipment?
- A4 No, the Smart Socket caters for all types of BABT approved telephones, (including the rotary dial type) and facsimile machines

- Q5 Will all my telephone extensions be connnected to Mercury?
- A5 Only one Smart Socket can be connected to any one BT master telephone socket How– ever, a DIY wiring kit may be used to connect extensions through the Smart Socket

Q6 How will I get billed?

- A6 You will now begin to receive separate bills, one from BT as usual, for the cost of line rental and local calls, and an itemised bill detailing those calls routed via the Mercury Network You will also be charged for the annual PIN code fee by Mercury
- Q7 If on subscribing to Mercury I did not select the Cost Centre Code option but wish to do so now, what do I do?
- A7 Telephone Mercury Customer Assistance on 0800 424 194
- Q8 What happens if I change address?
- A8 Please write to the address below giving details

 Mercury Customer Assistance, P O Box 49,
 Birmingham B1 ITE
- Q9 As an existing Mercury customer, am I able to use the PIN code already issued to me?
- A9 Whilst it may be possible to use your existing PIN code we do not recommend you do so This is to prevent possible programming difficulties and to ensure Mercury has accurate details on file in the event of any difficulties.

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IN CASE OF DIFFICULTY

If there appears to be a fault

- a) Check that all connections have been made correctly and ensure that the red power light is on
- b) Ensure you have followed the programming instructions Check in particular that you have entered the PIN code correctly (see page 5)
- c) Dial the Mercury Test Number If you connect to the Mercury Recorded
 Announcement, then your Smart Socket is operating as normal

If the Smart Socket still does not work properly, please contact
MERCURY CUSTOMER ASSISTANCE
DIAL 0800 424 193 (THIS CALL IS FREE OF CHARGE)

Alternatively you can write to them at MERCURY CUSTOMER ASSISTANCE, P O BOX 49, BIRMINGHAM B1 ITE

Please do not send faulty equipment to this address.

If you do need to return the Smart Socket to your supplier you should first remove your confidential PIN code following these steps

- Connect your telephone to the telephone port at the front of the Smart Socket
- Lift your telephone handset
- Press the "set" button (you will hear beeps in the handset)
- Press the "set" button again (you will hear further beeps)
- Using your telephone keypad, enter the digits 808
- Press the "set" button (you will hear further beeps)

COST CENTRE CODES

Cost centre codes are a billing option selected on your Mercury application form. It allows you to dial any 2 or 3 digit code of your choice for internal accounting purposes

This feature is only available to customers who can dial out in tone (MF) rather than pulse (LD) signalling. If in doubt check with your local BT office

PROGRAMMING COST CENTRE CODES

- Lift the telephone handset
- Press the "set" button on the Smart Socket (you will hear beeps)
- Press the "set" button again (you will hear beeps)
- Using your telephone keypad, enter the following code 444
- Wait for the green "Mercury" light to come on
- Press the "set" button again
- Replace the telephone handset

To disable the Cost Centre Code option, follow the procedure as above except replace the code 444 with the code 400

DIALLING USING COST CENTRE CODES

- Having programmed the Smart Socket to enable the Cost Centre Code option, you must dial in the following way for <u>each</u> and <u>every Mercury call</u>
- Press the # button on your telephone keypad
- Dial the Cost Centre Code (any two or three digits of your choice)
- Dial the number

The bill you will receive from Mercury will show items grouped under the codes you have nominated

Not all telecommunications equipment may have the facility to dial cost centre codes. If in doubt please check with your equipment supplier.

TECHNICAL INFORMATION

This apparatus is subject to strict approval regulations. The following notes will ensure that the apparatus continues to be approved.

Do not connect any unapproved apparatus to the telephone port on the front of the Smart Socket This port is labelled -

"TELEPHONE **WARNING** CONNECT ONLY APPARATUS COMPLYING WITH BS 6301 TO THIS PORT"

Interconnection directly, or by way of other apparatus, of the above labelled port and ports not so marked may produce hazardous conditions on the BT Network Advice should be obtained from a competent engineer before such a connection is made

You must only use the power supply provided with the Smart Socket The use of any other power supply will invalidate any approval given to this apparatus

This apparatus is intended to be accessible only to authorised personnel. Any attempted access to the Smart Socket or its power supply will invalidate any approval given to this apparatus.

This apparatus is suitable for connection to a Direct Exchange line via a master socket as described in these instructions. It is not intended to be connected to a PBX extension socket, shared service, party line, a payphone, or a 1+1 Carrier System. It is suitable for connection to Loop Disconnect or Multi Frequency dialling lines. The supplier should be contacted if you are in doubt.

It cannot be guaranteed that the apparatus will operate under all possible conditions of connection. Any cases of difficulty should be referred in the first instance to the supplier of the apparatus.

This apparatus has been approved for the use of the following facilities - Series Connection Facility and Call Store and Forward. Any other usage will invalidate approval of the apparatus if as a result it then ceases to comply with the standards against which approval was granted.

For a definition of a Relevant Branch System (RBS) for PSTN lines see BS 6789 Section 6 1 clause 2 4

The principal apparatus which may be connected to the "TELEPHONE" port on the front of the unit includes the following - Any green label telephone, an approved FAX machine (you must check the approval), approved DIY kits, or an approved modem (you must check the approval) This list is not exhaustive and cannot include future developments. If you have any other apparatus you would like to connect please check with the supplier

When the main apparatus is connected to the Smart Socket and the last digit has been sent to line, you will not be able to speak to the called party for up to 4 3 seconds In the unlikely event that the called party answers within this time you will still be able to hear them

Ringer Equivalence Number (REN)

The REN value of this appratus is 0 3 To determine the maximum number of items of apparatus that should be connected simultaneously to an exchange line, the total REN

obtained by adding the REN values of each of the items of apparatus connected to the line should not exceed the maximum REN value of 4. Any instrument is assumed to have a REN value of 1.0 unless otherwise marked. (You should take the REN value of the Smart Socket, 0.3, the REN value of the Fax machine and the REN value of any associated telephone connected to the Fax Machine.)

Series Equivalence Number (SEN)

The series resistance of this apparatus is less than $10\Omega\,$

The insertion loss is 0 25 dB

The SEN value of this apparatus is 0 5

To determine the maximum number of items of series connected apparatus that should be connected simultaneously to an exchange line, the total SEN obtained by adding the SEN values of each of the items of series connected apparatus connected to the line should not exceed the maximum SEN value of 1 Difficulties may occasionally be experienced when making calls from other apparatus connected to the PSTN via more than one series apparatus if the aggregated SEN values approach the

value 1 or if the aggregated d c resistance approaches 50Ω Such difficulties may include - (1) difficulty in making calls,

(2) problems in telephone conversation being experienced by both parties to the call if such difficulties are experienced you should consult the supplier of the series apparatus in the first instance

The voltage drop introduced between the PSTN and the associated main apparatus at a current of 40mA d c is 0.5 Volts. The apparatus should not be used in conjunction with other series connected apparatus such that the aggregate declared voltage drop together with that introduced at 40mA by any relevant wiring exceeds 2 Volts.

If you do not already have the new style plugs and sockets you should apply to your Local Telephone Area office using the card provided

Before attempting to use the Smart Socket you MUST have programmed your Authorisation (PIN) code, exception codes and cost centre codes (if appropriate) according to the instructions in this user guide. Failure to do this

could result in all your calls being made via the BT network and the loss of cost savings which would normally be enjoyed by the use of your Smart Socket

If you lift the handset, you must start to dial within 10 seconds. If you take longer than this to dial, your call will be sent via the BT Network even if it would normally have been sent via the Mercury Network.

During dialling, this apparatus may tinkle the bells in other telephones sharing the same line. This is not a fault and we advise you not to call the Fault Repair Service

If for any reason a call cannot be routed via the Mercury Network, it shall automatically be routed via BT

