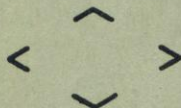


NO. 2-C  
IDIOSYNCHROVISOR  
SPECIFICATIONS



COURTESY



**NEELY ENTERPRISES** *Electronic Manufacturers' Representatives*  
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NO. 2-C IDIOSYNCHROVISOR  
Description and Operating Procedures

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1. GENERAL

1.01 As a result of field experience with the No. 2-B Regrettor Unit, brought out in 1937, it was found that there were a great many emptors caveatting around and hence a slightly different type of instrument seemed desirable.

1.02 The exact form of this instrument has been the cause of much dissension among research groups. However, with the assistance of a substantial grant from the Prying Eye Foundation and suggestions from a whole corps of knaves and cuckolds, the researchers, united in their disunion, have finally evolved the No. 2-C IDIOSYNCHROVISOR.

1.03 The IDIOSYNCHROVISOR (idiosyncrasy synchrovisor to see) is an electronic device which picks up and displays on a suitable fluorescent screen intimate data on human behavior heretofore inaccessible even to highly sensitive and well-trained professional snoopers of the type which currently infest the networks of the nation.

1.04 This device, used in the privacy of the home, brings to the operator a powerfully illuminating and critical insight into the lives of any particular individuals whom he may designate. Their peculiarities and behavior can be reviewed by remote control, so to speak.

1.05 The device functions objectively and explores the personality, character (or lack of it), and behavior of any type of individual. On its screen, the instrument displays data on the following.

- (a) intriguing idiosyncrasies
- (b) juicy foibles
- (c) diverting peccadilloes

(d) succulent moral lapses

(e) and many another toothsome morsel chargeable to the hapless subject.

1.06 The sensitivity of the instrument is high enough to bring out attributes which without artificial aid would be below the threshold of suspicion. This high sensitivity appeals to common scolds, prating gossips, and talebearers, and those with more serious and practical intent, such as lawyers.

1.07 As the instrument scans a subject, it does so without that worthy's knowledge. It was found necessary to incorporate this unilateral feature to avoid much unnecessary and embarrassing litigation.

1.08 In addition to displaying data upon the screen for the edification of the operator, the IDIOSYNCHROVISOR has another happy faculty which is roughly analogous to the functions of an automatic tracking and follow-up system. That is to say, having got the data, the instrument automatically proceeds to do something about it, leaving the operator free to enjoy its data presentations, with detachment or rage as desired.

1.09 The fact that this is automatic and does not require the attention or participation of the user is of priceless benefit as shown below under the various auxiliary functions which it performs.

1.10 The instrument will pass judgment on the data picked up. Technically absolved, the user finds that he is in the enviable position of himself having judged not, lest he be judged, yet withal in full possession of the obvious advantages and satisfactions to be derived from this enuxemplary but universal pursuit.

Note: This has the appearance of righteousness.

(1) But not the odor.

1.11 The IDIOSYNCHROVISOR will automatically vent spleen. The data picked up on certain characters sometimes has a tendency to enrage the user, inciting him to violence, perhaps mayhem. Accordingly, to assist in forestalling conditions of this kind, and to gratify the user the more, the IDIOSYNCHROVISOR is provided with several SPLEEN VENTING ATTACHMENTS, by means of which the user may automatically have his displeasure worked off for him without effort or cost to his own spleen which he may save to personally vent on the first idle coxcomb he meets in the streets. This results in a considerable annual saving in spleen.

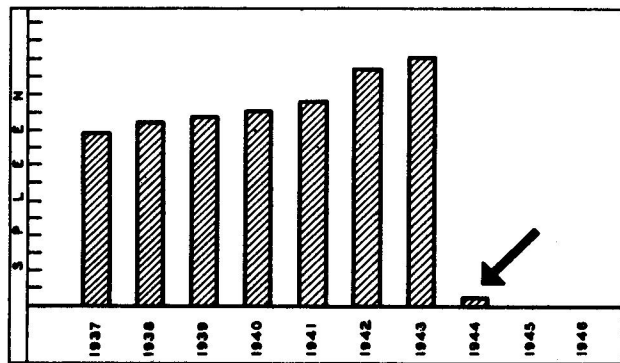


Fig. 1 Yearly Net Savings Over Gross Earned Income Credit.

The SPLEEN VENTING attachments are described in Section 3.

#### 1.12 The instrument is arranged to harbor grudges.

These are harbored in a special chamber provided for this purpose. A light nurturing charge from the set's power supply can be applied at intervals and so keep the grudge alive indefinitely. The shelf life of a normal grudge without this activating charge is only about six weeks.

1.13 The IDIOSYNCHROVISOR is designed also to classify and appropriately reward certain moral lapses. When a particularly vicious moral lapse is detected, the instrument will automatically select and attach to it one of a number of stigmas of pre-selected gauge. The gauge selected is under the control of the operator according to his personal convictions, convictions, conscience, and charitability.

Note: Technically this still leaves the user with clean hands.

(1) Never mind about the pure heart.

1.14 The device will blot 'scutcheons. It is arranged to accommodate 'scutcheons of any size and prior freedom from blemish. This is not an automatic feature. It is foot-operated, as desired, by the user, a convenient pedal with appropriate spring return being provided.

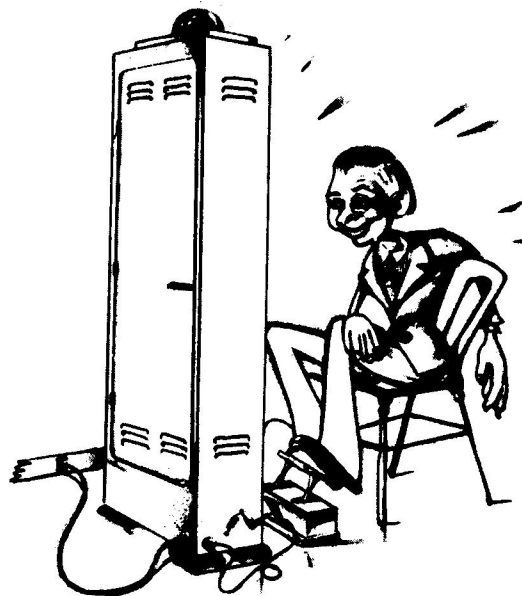


Fig. 2 Idiosynchrovisor in Use

## 2. OPERATING PRINCIPLES

2.01 A psychoelectric cell is arranged to explore the eccentrostatic field about the character under observation. The scanning pattern is an interlaced spiral. This scan is effectively carried out over practically any distance which might intervene between the subject and the instrument.

2.02 Idiosyncrasies, foibles, peccadilloes and other aberrations present in the eccentrostatic field about the subject are converted into an idio frequency

Note (1): Any phoney aura, suffusion, reputation, glowing recommendation, or other masking "Glare," surrounding the subject under examination appears as a D.C. component at the output of the scanning cell, since such fields are more or less evenly distributed about the subject. This component can be readily separated from the idio frequency by means of a simple high pass filter. With this arrangement, the instrument is not blinded by false glamour or by a showy front.

Note (2): In cases where the instrument shows no output from the subject it is a positive indication that his halo fits too tightly.

2.03 The idio frequency current is fed into a high gain idio amplifier where it is amplified up to a level well within the perception range of the most naive. The amplifier has a wide pass band, and Fig. 3 shows the flat response characteristic of the instrument. Its great range is crowded even in logarithmic coordinates. Part of the crowd showing on the plot, and largely hidden by a black mantissa over her head, is a poor old Spanish logarithm who got into the idiosyncrasy part of the spec-

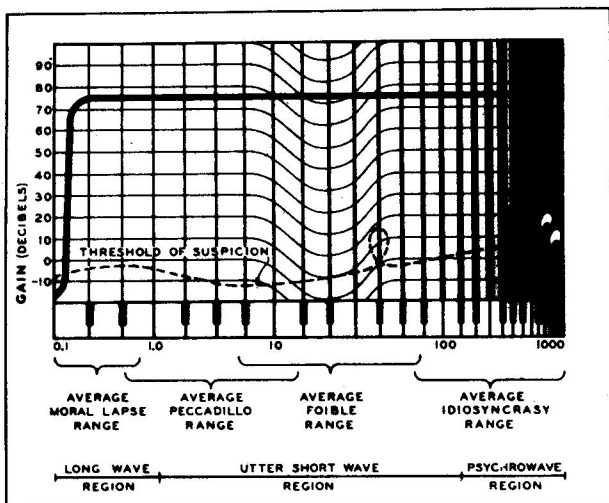


Fig. 3 A Characteristic Characteristic Curve

2.04 In the discussion which follows, the block diagram, shown in Fig. 4, will be helpful. The output of the idio amplifier divides into five branches:

2.05 The upper branch feeds directly into a double trace Cathode Ray Perceiver Unit where visual scrutiny may be applied to the character of the subject; unhappy, unsuspecting wretch.

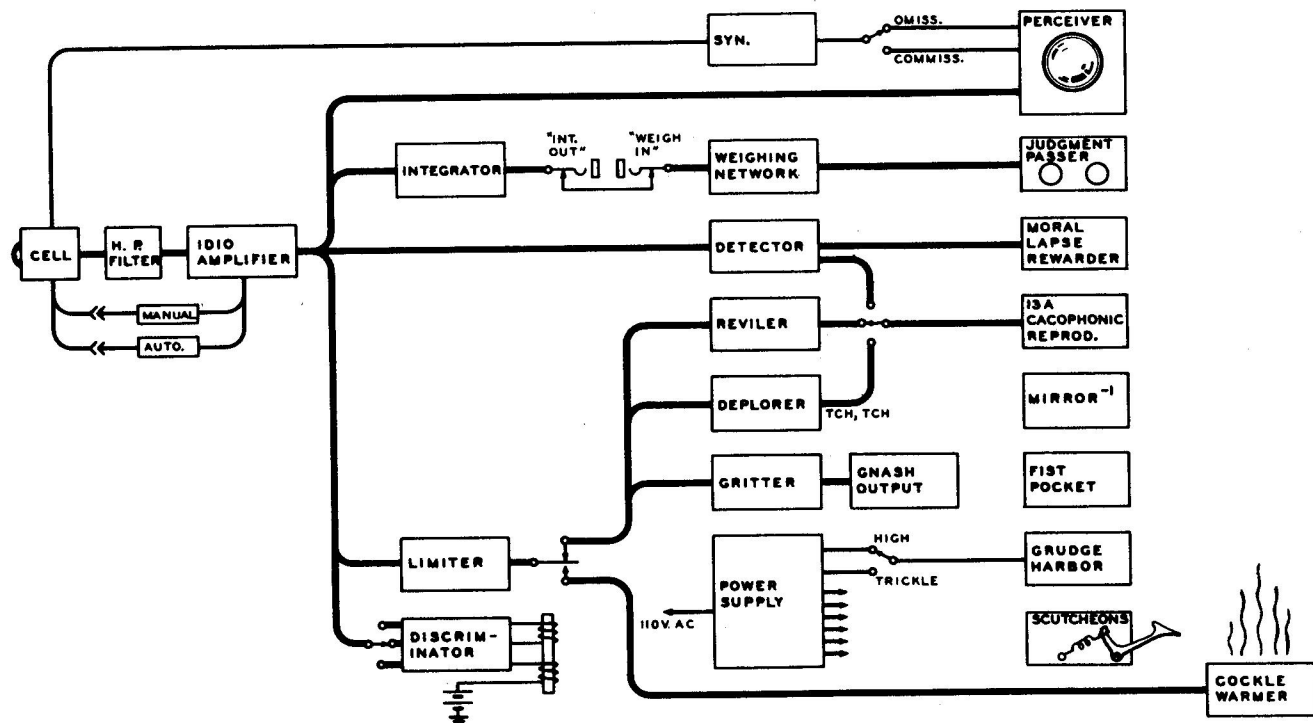
(a) The inner trace displays those things which the subject does, but ought not to do; the outer trace displays those things which the subject leaves undone, but should do.

(b) The operator may choose which of these is to be displayed by a switch in the synchronizing circuit which synchronizes the PERCEIVER scope sweep with the explorations of the psychoelectric cell. This SYN switch is marked OMISSION and COMMISSION, respectively.

2.06 Another branch from the idio amplifier output feeds into an INTEGRATOR circuit having a high integrity constant, which lies in wait for peculiar peccadilloes, indiscreet idiosyncrasies, foolish foibles, and luscious lapses. These are suitably integrated and then sent to the WEIGHTING NETWORK by means of a patch cord plugged into the jacks marked "WEIGH IN". This network is of the bridge type which is adjusted for a null balance at the factory. It is in this balance that the weighing is performed. Any "want" which is found determines the judgment to be passed by the eight 6L6 power tubes in the JUDGMENT PASSER circuit.

Note: A high degree of inverse feedback in the power stages assures clean and equitable judgment being passed by these tubes.

(a) For convenience of the operator, two meters are mounted on the JUDGMENT PASSER panel. One is calibrated as a DERELICTION GAUGE, and the other is simply a DELINQUENCY INDICATOR. These indicate the drift and the departure, respectively.





2.07 A third branch of the idio output is fed into a detector whose putput is used to drive the MORAL LAPSE REWARDER. This is the device which attaches suitable stigmas to moral lapses.

(a) In addition, the output of the detector can be aurally monitored through the 13-A CACAPHONIC REPRODUCER'S loudspeaker. The protestations, and laments of the detected foibles, idiosyncrasies, and the like upon becoming aware that they have been detected, and upon finding themselves forced through, willy-nilly, by the "B" supply result in considerable audio output. The bedlam of loud jeremiads may be recorded for future reference and study or for comparing with one's own troubles and complaints, making such seem mere trivia.

2.08 The fourth branch from the idio amplifier output enters a LIMITER stage which cuts off both positive and negative peaks of the idio waves at the threshold of credulity.

Note: This threshold may be shifted slightly by adjusting P4, the Gullibility Potentiometer.

2.09 Unlike the circuit action of conventional limiters, which is wasteful, this limiter is arranged so that the cut-off peaks are saved, amplified further, and used to advantage. Occasionally, a gratifying attribute is picked up and the resulting positive peaks are sent to the COCKLE WARMER unit, where they are dissipated in strip heaters to warm the operator's feet. See Fig. 2. Negative peaks are routed to the several SPLEEN VENTING ATTACHMENTS described in Section 3.

2.10 The proper routing of the peaks saved by the LIMITER is controlled by the DISCRIMINATOR circuit. This circuit applies a positive or negative current to a polar relay depending upon whether the idio envelope is good, or bad, respectively. This relay S2, switches the limiter output. See Fig. 4.

(a) The DISCRIMINATOR will distinguish between idiosyncrasies or peccadilloes differing by as little as a single jot, tittle, or farthing. The degree of selection can be controlled by the NEGLIGIBLE INCREMENT (NEG. INC.) dial on the panel.

2.11 Trimming up the discriminator is facilitated by an Electric Eye. Fine adjustments may be observed with the EYE SWITCH D3 in the "MOTE" position; coarse adjustments on the "BEAM" position. Trimming is further facilitated by the duplicity of the user.

### 3. SPLEEN VENTING ATTACHMENTS

3.01 Several SPLEEN VENTING ATTACHMENTS are fed from the LIMITER output. They are listed below:

- (a) Active Elements
  - 1. Reviler Circuit
  - 2. Deplorer Circuit
  - 3. Automatic Gritter

- (b) Passive Elements
  - 1. Negative Mirror
  - 2. Fist Pocket

(The PASSIVE ELEMENTS are not connected to anything. They are there simply for the convenience of the operator.)

3.02 The REVILER circuit has a very high opprobrium output which can be adjusted by the VITUPERATOR CONTROL POTENTIOMETER, P2. This circuit will revile for the user more effectively than a Class "B" (mule) driver, with much higher efficiency, and without the tobacco juice. This is known as a dry circuit.

(a) Higher order products result in wide sidebands, rich in invectives, diatribes, and third harmonics. This circuit will revile for long periods, will not repeat once, and does not overheat. A thermostat keeps it at an even tenor. The output may be switched to the 13-A CACAPHONIC REPRODUCER and monitored on the loudspeaker.

3.03 The DEPLORER is a rather simple circuit resembling a multivibrator. When comparatively mild fallibles, follies, and indiscretions are picked up by the IDIOSYNCHROVISOR, this attachment clucks deprecatingly in much the same way that a maiden aunt, who has let the best of life slip by, feels called upon to cluck: that is, in a disapproving manner, but unconvincingly. The tch, tch, tch output can be switched to the monitoring loudspeaker, if desired.

3.04 The AUTOMATIC GRITTER is a solenoid device which grits a set of matched teeth together, with venom and a little sand. This is a source of constant delight to most operators. See Fig. 5.

Note: For extremely nervous operators, grade No. 0000 sand should be placed in the SAND MAGAZINE.

Confirmed phlegmatics, however, find grade No. 2 or No. 3 sand very satisfactory.

3.05 In addition, the user need not bite his nails; the GRITTER can do that for him while it grits. The additional load is inconsequential. It is clear that the greater the idiosyncrasies and foibles picked up, the harder the GRITTER will grit.

3.06 The NEGATIVE MIRROR is a passive element, but it does assist in spleen venting. This is a device for the user to leer into as he gloats before his PERCEIVER screen. This mirror has a true "black body" surface which careful measurements show to absorb about 98 percent of the sanctimonious type of leer, and about

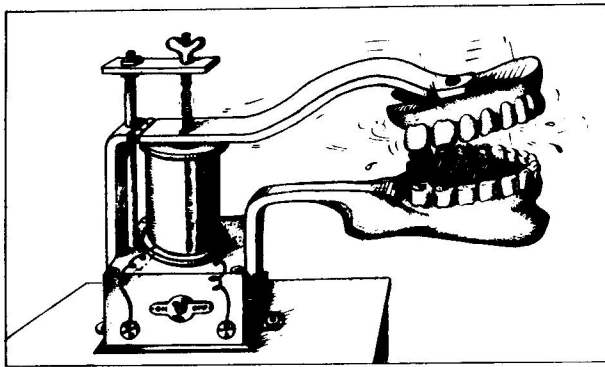


Fig. 5 Automatic Gritter Attachment

93 percent of the suggestive or insulting type. This absorption, of course, is dissipated as heat, and the user is just as well satisfied as though he were leering directly at the subject, since the net result has been to arouse a heated response.

3.07 Another passive element among the SPLEEN VENTING ATTACHMENTS is the FIST POCKET. This is a fleece lined pocket accessible to the operator from the front panel. It is provided for the operator to make fists at people in, when the data displayed on the PERCEIVER screen indicates this form of venting to be desirable. It saves the user's own pockets.

#### 4. INSTALLATION AND OPERATION

4.01 The IDIOSYNCHROVISOR, being portable, does not require elaborate installation work. However, it should be carefully observed that it must be kept and operated in such a manner that it is not readily accessible to any but authorized, discreet, and screwpuloose persons.

4.02 It cannot be overemphasized that the potentialities of trouble for the owner of an IDIOSYNCHROVISOR are vast, and therefore extreme care should be exercised in its use, and also in advertising abroad in the land the type of data it presents, and the high degree of accuracy with which it presents it.

4.03 In installing and operating, it should be borne in mind that all gate and door switches are to be respected. They are there to protect personnel from their own folly, as are all gate switches.

Note: All gate and door switches are strapped out at the factory after inspection, so the above caution may be disregarded in all IDIOSYNCHROVISORS having a serial number higher than 203. On instruments below this number this is also true. This leaves No. 203 as the only one where the foregoing

does not apply, and the application schematic drawing SD-656421-1-001-list 4 shows this. Issue 2 of this drawing corrects the error, but the correction applies only to list 3 equipments when specified.

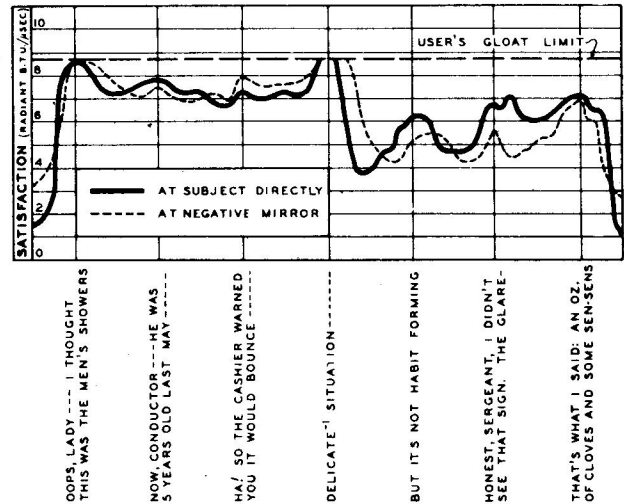


Fig. 6 Leer Effect

#### 5. MECHANICAL AND CIRCUIT ARRANGEMENTS

5.01 The instrument is ruggedly built and will put up with a good deal. The individual panels are mounted in an enclosed but ventilated equipment rack. This is a stronger rack than usual to enable the unit to bear heavy brunts.

5.02 The apparatus on each panel has been designed to assure adequate space around each component part. Between some of the more widely spaced units, it is possible to insert a spark-plug gap gauge without touching. Some of the interconnecting leads are, therefore, so short that if put end to end, they wouldn't reach. This short wiring prevents generation of spuricitics in the vacuum tube circuits.

5.03 All wiring is cabled into forms which have been impregnated with a tough plastic before being soldered into place. All important circuits are wired with red wire.

Note: Since all circuits are equally important all the wires are red. This simplifies and speeds up trouble shooting since it is unnecessary to consult a color code wiring diagram.

5.04 Where several wires solder on to the same terminal they are first all twisted together in the normal manner, and the resulting strand soldered to the terminal so that removal of one requires that all be removed. (Such orthodoxy should not be unrewarded.) Subsequent separation of the strands with a hot soldering iron results in considerable spattering of solder.

Note: This exigency has been aptly provided for in that a lot of solder is deliberately spattered about in the instrument during manufacture. Hence any additional spattering appears only as a small increment indeed, and the percentage increase of spattered solder is thus kept very low.

5.05 Some of the higher voltage elements are in vacuo.

This arrangement is regarded as excellent because of the fine electrical properties of a vacuum. Experience has shown, however, that the mechanical properties of a vacuum leave much to be desired: hence, the unconventional solutions found in the instrument.

## 6. FEATURES TO DISCOURAGE TAMPERING

6.01 The vacuum tubes are mounted in the familiar one-way sockets; that is, they can be readily put in but cannot be removed without an asbestos glove and forceps.

Note: One glove only (right hand) is supplied with the instrument.

(a) Where the operator is left handed the glove must be ordered separately.

(b) Order Form No. 41143 should be filled out in quadruplicate, and the three illegible copies forwarded to the OPA Handwriting Division who determines the authenticity of the left-handedness.

(c) Priorities may prevent the order being filled.

(d) To avoid this difficulty, user may invite a right-handed friend to remove the tube, on the prospect of being allowed to view his friends in the IDIOSYNCHROVISOR.



NOTE: FINGERS LEFT BARE  
FOR PLATE DISSIPATION TEST

6.02 The tube sockets are plainly marked with the tube types in red wax letters, so that after the tubes have been put in and the set operated for a short period, the letters will be obliterated in the normal manner.

## 7. MAINTENANCE

7.01 The mouth of the REVILER should occasionally be washed out with KS6742 Little Wonder Saddle and Harness Soap. After the mouth has been carefully dried, it should be dusted lightly with a little No. 000 Powdered Calumny.

7.02 Moisten the flat end of a tooth pick with chemical-pure carbon tetrachloride and gently cleanse the matched teeth of the GRITTER attachment and the contacts of Relay S2. A little more tetrachloride may be used if the first moistening wasn't enough.

7.03 Occasionally the dull surface of the NEGATIVE MIRROR should not be wiped off and polished with KS4629 Leer Wax, as this would disturb the inductive refrax.

(a) Thus a very small amount of wax should last a (very)<sup>2</sup> long time.

## 8. ACCESSORIES

8.01 A bundle of KS6436 Moral Fibre is included with the spare parts for the instrument. It is recommended that a goodly supply of this be kept on hand.

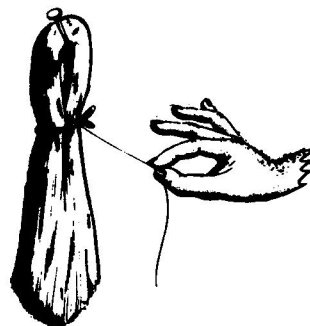


Fig. 7 Moral Fibre

8.02 One sack of assorted KS6214 Stigmas for the MORAL LAPSE REWARDER is also included. Additional supplies must be ordered separately.

8.03 Several packets of D-12736 Assorted Sands for the GRITTER will be found tucked away between the packing slip and the invoice.

8.04 A small bottle of indelible stain for the 'SCUTCH-EON BLOTTER is supplied and will be found held in place by a small bar sinister wedged in behind the power supply.

8.05 A short but sturdy FUBAR is supplied to open the rear door to the cabinet for servicing.