Enter Serial No. here.

In the event of an enquiry please quote this serial number.

MANUAL No.Y-AL-01E

Store this document safely and ensure it is available at all times.

Non-availability may affect the service / repair of your machine.

MONO

OPERATING AND MAINTENANCE MANUAL

for the

ALPHA DEPOSITOR

The use of templates and/or accessories not produced or supplied by MONO Equipment will invalidate the machine's warranty

FOR PROGRAMMING INSTRUCTIONS – SEE SEPARATE MANUAL

DECLARATION OF CONFORMITY

We hereby declare that this machine complies with the essential health and safety requirements of :-

- The Machinery Directive 2006 / 42 / EC
- The Low voltage Directive 2006 / 95 / EC
- The requirements of the Electromagnetic Compatibility Directive 2004 / 108EC, 91 / 263 / EEC, 92 / 31 / EEC
- The General Safety of Machinery and food processing Standards applicable
- Materials and Articles intended to come into contact with food Regulation (EC) No. 1935 / 2004

Signed	
G.A.Williams – Quality Manager	

Date	

Machine FG Code.		**Machine Serial No.**	

A technical construction file for this machine is retained at the following address:

MONO EQUIPMENT
Queensway,
Swansea West Industrial Park,
Swansea
SA5 4EB
UK

MONO EQUIPMENT is a business name of **AFE GROUP Ltd**
Registered in England No.3872673 VAT registration No.923428136

Registered office: Unit 35,
Bryggen Road,
North Lynn Industrial Estate,
Kings Lynn Norfolk,
PE30 2HZ

QD 080 Revision AA Dated 06/02/2014

CONTENTS

Failure to adhere to the cleaning and maintenance instructions detailed in this booklet could affect the warranty of this machine.

DISPOSAL

CARE SHOULD BE TAKEN WHEN THE MACHINE COMES TO THE END OF ITS WORKING LIFE. ALL PARTS SHOULD BE DISPOSED OF IN THE APPROPRIATE PLACE, EITHER BY RECYCLING OR OTHER MEANS OF DISPOSAL THAT COMPLIES WITH LOCAL REGULATIONS.

(IN UK, ENVIRONMENTAL PROTECTION ACT 1990 APPLIES)

The use of templates and/or accessories not produced or supplied by MONO Equipment will invalidate the machine's warranty

As it is our policy to improve our machines continuously,
we reserve the right to change specifications without prior notice.

1.0 INTRODUCTION

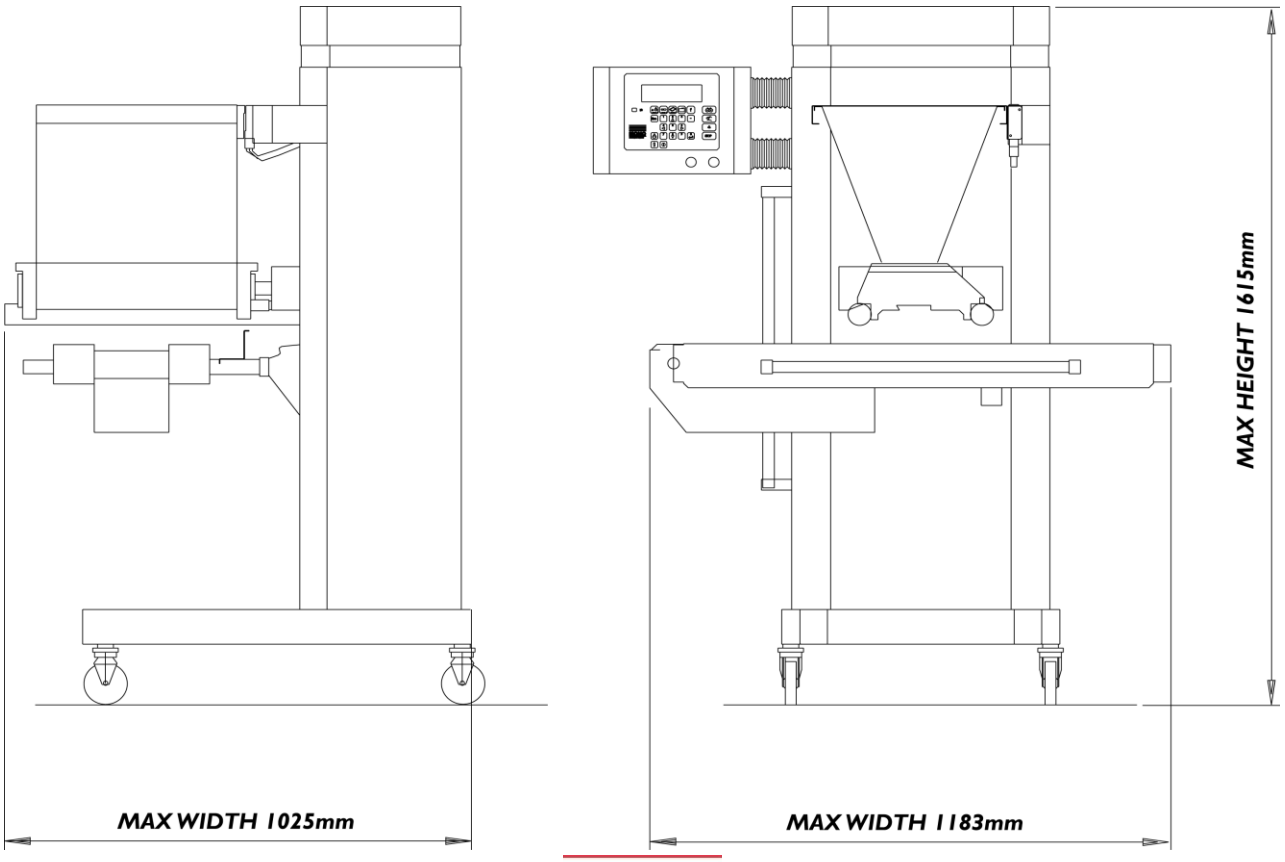
MONO's **ALPHA** depositor is designed for ease of use to produce a wide range of confectionery products. Its exceptional accuracy, repeatability, versatility and user friendly approach lends itself to quick high volume production.

The **ALPHA** depositor is a compact, high specification machine, operated off a single-phase electric supply and capable of being moved through a single door.

Product creation requires programming of the **ALPHA**'s controller via its menu driven interface screen situated on a swivel pod to the side of the machine. Product programs can be stored into the controller's memory for future retrieval, with the ability to store up to 99 programs - each program requiring unique identification using alpha and/or numeric characters.

Subsequent deletion of created programs is only possible via a password-protected screen. Mechanically, the **ALPHA** is configured with the tray conveyor capable of vertical movement and the deposit head in a fixed height position. Vertical movement is controlled by a manual control, with a fixed jog height. In order to achieve smooth production and optimum performance, it is recommended that the information given in this manual be studied before any operation is carried out.

2.0 DIMENSIONS



3.0 SPECIFICATIONS (SOFT DOUGH)

MODEL (nom. hopper width (cm))	***40***	***45***
Weight: (Kg)	**270**	**272**
Max. deposit rate: (litre/min)	**26**	**30**
Standard hopper capacity: (litre)	**36**	**41**

Power: 2.5Kw single phase fused at 20A anti-surge or 20A type d MCB.

Min distance between trays	= 50mm
Noise level	= Less than 85dB
Electronics	= All microprocessor Controlled

NOTE:

The minimum deposit that can be made depends on several factors - recipe, mixing method, template size and deposit speed.

As a guide the following is the minimum that should be attempted:

Macaroons	6g,
Meringues	3g,
Choux Paste	5g,
Viennese	4g,
Sponge Drops	4g.

However, consult **Mono Equipment** if intended product falls outside the above general machine specification to determine the **ALPHA**'s exact capabilities with any specific product.

4.0 SAFETY

1 Never use a machine in a faulty condition and always report any damage.

2 Only trained engineers may remove any part from this machine that requires a tool to do so.

3 Always ensure hands are dry before touching any electrical appliance (including cable, switch and plug).

4 All operatives must be fully trained.

5 People undergoing training on the machine must be under direct supervision.

6 Do not operate the machine with any panels or guards removed.

7 No loose clothing or jewellery should be worn while operating the machine.

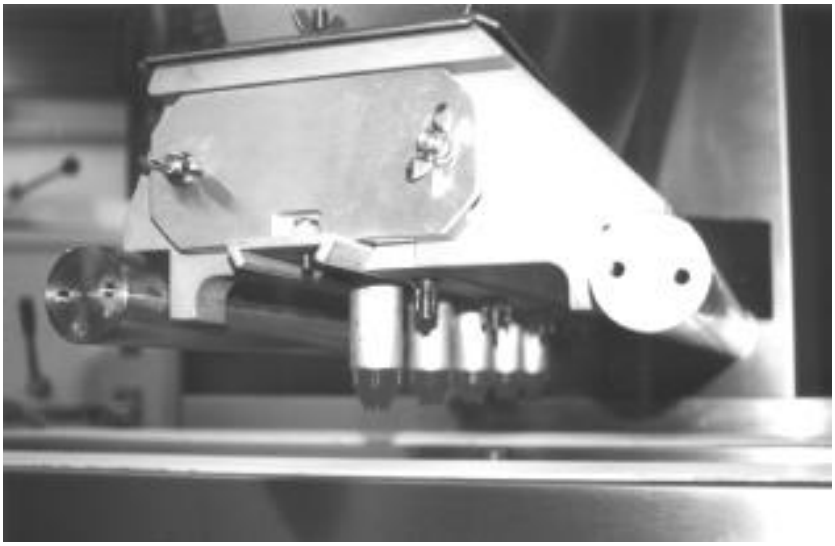
8 Switch off power at the mains isolator when machine is not in use and before carrying out any cleaning or maintenance.

ALL CLEANING AND MAINTENANCE OPERATIONS MUST BE MADE WITH MACHINE DISCONNECTED FROM THE POWER SUPPLY.

9 The bakery manager or the bakery supervisor must carry out daily safety checks on the machine.

10 Do not operate machine without hopper template fitted correctly.

10 HOPPER TEMPLATE FITTED



5.0 INSTALLATION

1 Ensure that the depositor is connected to correct electric supply as specified on the serial number plate on the rear of the machine.

2 Ensure that the correct fuse rating is fitted in the electrical supply to the **ALPHA** - a 13A single-phase supply fused at 20A anti surge or 20A type D MCB is required.

6.0 ISOLATION

1 In an emergency, switch off at the mains wall isolator, or the machines emergency stop button. To release the emergency stop button, turn clockwise.

7.0 CLEANING INSTRUCTIONS

NOTE:

- **Cleaning must be carried out by fully trained personnel only.**
- **Isolate machine from mains supply before carrying out any cleaning.**
- **Do not steam clean or use a jet of water.**

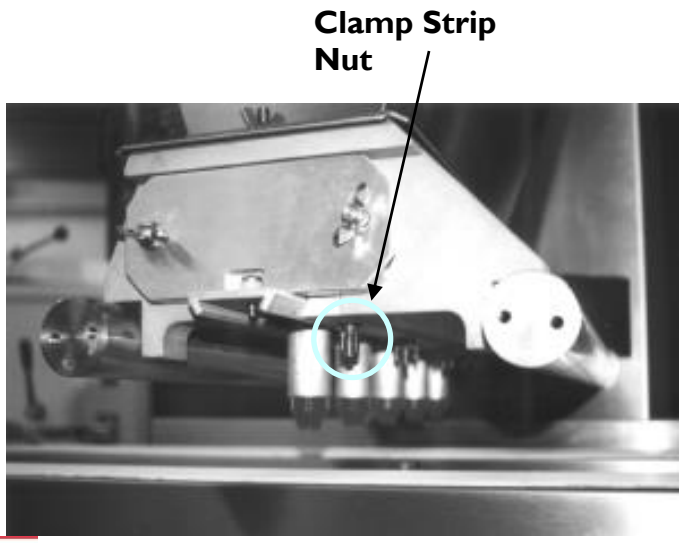
All the outer surfaces of the machine should be daily wiped over with warm soapy water. Do not use any form of caustic detergent or abrasive.

a. BETWEEN PRODUCT MIX CHANGES

1 The hopper, hopper pump, template, nozzles etc. should be removed from the machine and dismantled for thorough cleaning.

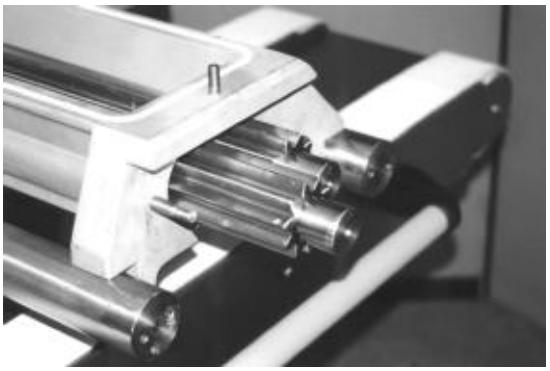
2 Slacken template clamp strip nuts and remove fitted template from hopper pump assembly by sliding out to avoid subsequent damage.

2



3 To reduce weight and bulk, separate and remove hopper body from hopper pump assembly whilst still on machine. Unscrew the nuts holding the hopper body to the hopper pump to reveal the 'O' sealing ring. Ensure seal is not damaged during cleaning.

3



4 Unscrew the nuts holding the pump end cap to the hopper. Ensure that the nuts are placed where they will not be lost.

5 Withdraw the end cap with the pump gears, if still attached. Ensure that the 'O' sealing ring on the inside of the endplate is not damaged during cleaning.

5

6 Remove the hopper-locking clamp from the end of the hopper bar and slide off hopper pump casting.

NOTE*:* Use only warm soapy water to clean these parts that should be rinsed and thoroughly dried before re-assembly. The greatest care must be taken not to drop the hopper, or leave any components in the hopper.

b. CLEANING OF HARD DOUGH HOPPER

1 Remove hopper from hopper body assembly by removing the wing nut at either end.

2 Lift off both upper bronze end caps
Remove both gears from the assembly; ensure that the hopper has been disengaged from the drive, to enable removal.

NOTE:
The main hopper construction should be lifted off by at least two people.

c. TABLE REMOVAL AND CLEANING

1 Removal of the table from the machine for cleaning is not necessary, however, if required, unscrew the two securing screws from the side of the table. Disconnect the three sockets from the main bulkhead and slide the table off the support bars.

1

To replace, follow reverse procedure.

2 In normal use clean the table's external surfaces and belts with warm soapy water and rinse and thoroughly dry before use.

3 The table's conveyor belts can be disengaged from their drive rollers by slackening the adjusting screws on the underside of the table. However, for belt replacement first remove the table from machine as in 7.c.1 above.

3

d. WIRECUT REMOVAL AND CLEANING

1 To remove wirecut frame, lift out drop arm pins and slide frame out backwards.

2 Clean with warm soapy water, rinse and thoroughly dry and replace.

8.0 OPERATING CONDITIONS

Make sure the depositor is used on a level floor to achieve best results.
Ensure flat trays of consistent length, width, material and edge dimensions are used to obtain the best product results and consistent operating from the **ALPHA.**

9.0 OPERATING INSTRUCTIONS

FITTING THE HOPPER

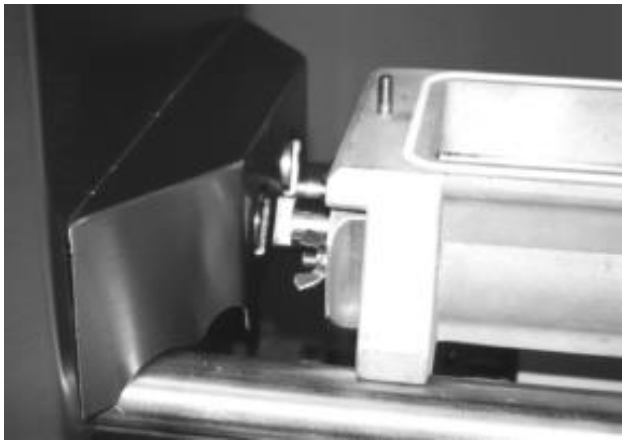
CAUTION SHOULD BE TAKEN WHEN FITTING HOPPER PUMP AS WEIGHT EXCEEDS 20KGS.

1 To reduce weight and bulk, fit the complete hopper assembly in two stages - first the hopper pump assembly, then the hopper body with its detachable top guard.

2 Align hopper pump drive gear with drive shaft and slide hopper on support bars until fully up against locating boss.

3 Ensure hopper-locking clamp is replaced on hopper bars.

2



DO NOT OPERATE MACHINE WITHOUT TEMPLATE FITTED

FITTING A TEMPLATE

1 Select template and nozzles required.

2 Screw nozzles into threaded nozzle tube on templates.

3 Slide template into matching recess at base of hopper pump until the stop engages.

4 Tighten nuts on clamp strip, on underside of hopper pump, to secure template. Leakage of mix will occur if the nuts are not securely tightened.

FITTING WIRECUT FINGERS

1 Select wirecut fingers that suit the chosen template i.e. the correct number of dies across the template.

2 Remove drop arm pins and insert finger frame into arms. Ensure the follower arm roller is positioned on the cam track, replace pins.

3 Replace drop arm pins.

4 Remove motor release handle and push fingers forward in order to line up the wire with the dies.

5 Adjust individual finger bolts to raise the wire to touch the bottom surface of the die.
Or
adjust cam follower arm to raise or lower all fingers together.

REPLACEMENT WIRE

1 Remove broken wire

2 Feed wire through eye on its end, to make a loop.

3 Place loop around fixing screw and tighten

4 Feed wire through eyeholes in the end of the fingers.

5 Feed wire through hole in tensioning screw and tighten until wire is taught.

10 CONTROL PANEL LAYOUT

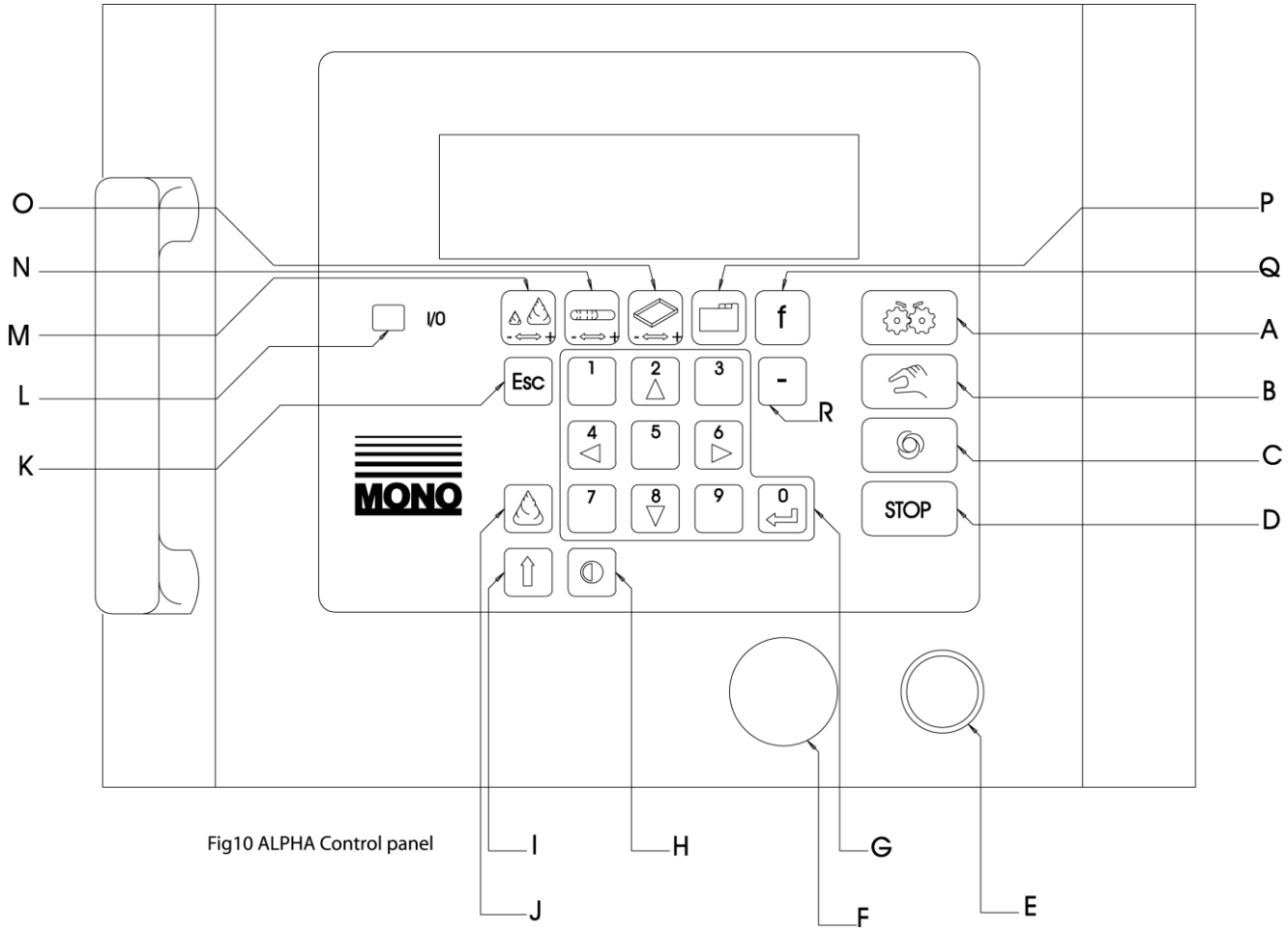


Fig10 ALPHA Control panel

11.0 DESCRIPTION OF CONTROL PANEL - KEY FUNCTIONS

DRG REF.	FUNCTION	DESCRIPTION
A	**PRIME**	This button activates the hopper pump for as long as it is pressed, providing either a product creation or run menus are on screen, and all safety guards are properly closed. It fulfils two functions: - **a**.To prime the hopper pump and nozzles with product mix. **b**.Aids the engagement of the hopper drive gear into the drive shaft.

B	**MANUAL**	Runs product program for one tray only, then returns tray to operator and stops. If a tray is already under the deposit pump, by pressing “manual” the tray will be returned to you.
C	**AUTOMATIC**	Activates an automatic machine cycle provided a tray is on the table and positioned correctly. At the end of the cycle the tray conveyor will continue running to displace full tray from machine and introduce empty tray to deposit start position **NOTE** If two trays are placed too close to each other the machine will interpret this as one long continuous tray and will continue feeding both trays through the machine until a gap at the rear of the following tray is detected.
D	**STOP BUTTON**	Stop button for either the manual or automatic modes. Stops machine cycle but does not cut power to drives.
E	**START BUTTON**	**Pressed once** will power up controller screen. **Pressed a second time** will activate all power electric circuits. All machine facilities can be used once pressed provided all safety guards are properly closed and emergency stop button is released.
F	**EMERGENCY STOP**	Immediately isolates all power circuits. To release - turn clockwise.
G	**NUMERIC/DIRECTION**	Whilst key (I) is being held down these BUTTON keys will allow entry of numerical values. If pressed by themselves they can be used for cursor movement and command activation.
H	**CONTRAST**	If pressed simultaneously with key (I) and then released, by using keys (I) and (H) the contrast of the screen can be changed Five seconds after release the new setting will be fixed.

I	**SHIFT BUTTON**	If used in conjunction with (G) keys will allow numerical entry. Used for adjusting contrast (as above).
J	**SINGLE DEPOSIT BUTTON**	When in a program creation menu pressing this will run program to do a single row on a tray, then return the tray.
K	**ESCAPE**	Enables exit from menus to higher levels and exit from current on screen operations.
L	**POWER INDICATOR**	When illuminated all electric circuits have been activated.
M	**DROP PRODUCT MENU**	Selects screen menu for creation of drop products i.e. products with no length.
N	**STRIP PRODUCT MENU**	Selects screen menu for creation of strip products i.e. products with length.
O	**TRAY MENU**	Selects screen menu to enter values for positioning of product on tray.
P	**FILE MENU**	Selects screen menu to save, retrieve and delete programs.
Q	**FUNCTION MENU**	Selects screen menu to enter edit/create menu and machine set-up menus.

12.0 OPERATIONAL CONTROLS

(See Fig 10)

Emergency stop button *(F)*

Isolates all electric circuits immediately. To release the emergency stop button, turn clockwise.

***NOTE**: ONLY USE IN AN EMERGENCY*

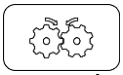
To stop the machine when in use only use *stop button (D)*.

Start button (*E)*

Activates all electric circuits. This must be pressed to start machine initially or on restarting machine after emergency stop button has been depressed, or if safety guard displaced, and subsequently replaced.

Stop button *(D)* 

Will stop the machine cycle immediately in either AUTOMATIC or MANUAL modes. When the machine is started again in either of these modes, it will begin to deposit at the start of a deposit cycle, no matter at what stage of the cycle the machine was stopped. **If pressed when conveyor table is too close to the depositing head to remove the tray, then manual button (B) must be pressed in order to reset and lower table and eject tray that is currently on the table.**

Prime button *(A)* 

Primes the pump gears and nozzles with product after the hopper has been loaded with mix and the hopper guards have been closed. The conveyor will drop, take in a tray and then the deposit motor will run for as long as the button is pressed. The prime button can also be used to aid the engagement of hopper gears to the drive shaft. Prime button will only function in a product creation menu or the run menu.

Auto button *(C)* 

This automatic operation is activated by the tray sensor on the table and allows the machine to be constantly fed with trays without the operator having to touch the control panel. The machine will operate when a tray is placed on the table and will stop cycling when each tray of deposit is completed. A minimum space of 50mm between trays allows for correct tray positioning. **To halt the automatic cycle, press the stop button.**

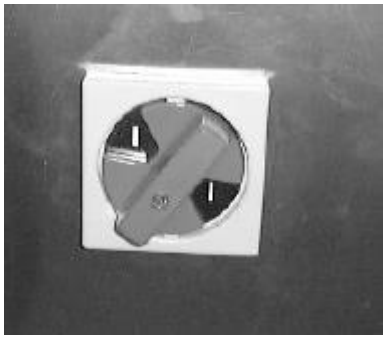
Manual button *(B)* 

This initiates the machine to cycle for one tray only. On completion of the tray, it is returned to the front of the machine and stopped ready to accept the next tray that should be placed on the table and the above procedure repeated. **To halt the manual cycle, press the stop button.**

13.0 PREPARING FOR OPERATION

1 Fill hopper with mix and close hopper guard. It is recommended that when heavy mixes are used, the inside of the hopper should be coated with vegetable oil; for lighter mixes such as meringue, dampen with water. The oil or water will help the mix to settle down the hopper walls and prevent air being sucked in.

2 Turn on isolator switch.



Isolator switch

3 Press start button to turn on controller screen.

4 Select an existing or new program.

5 Press start button again to turn on all electric circuits.

6 Press prime button and place tray on table; hold down button until mix is deposited equally across all nozzles. Then release prime button. Press manual to return tray.

7 The machine is now ready for operation

14.0 MACHINE / PRODUCT PROGRAMMING

Please see controller operational manual for programming instructions

15.0 MAINTENANCE

WARNING: Isolate machine from mains supply before carrying out any maintenance procedures. Refer to sections 7.0, 8.0 and 9.0

WARNING: DO NOT UNDER ANY CIRCUMSTANCES USE A WATER HOSE TO CLEAN MACHINE.

A RESETTABLE MINIATURE CONTACT BREAKERS.

These are located on the electrical bracket in the base of the machine. If a circuit breaker trips out more than once in a short period of time, contact a qualified electrician immediately.

B AIR FILTER REPLACEMENT

Replacement of the **ALPHA**'s air filter must take place on a 3 monthly basis as otherwise, excessive restriction to air flow may result causing insufficient cooling of internal components and electrics. The air filter is mounted within its housing on the inside of the back removable panel.

C TABLE HEIGHT ADJUSTMENT YOKE

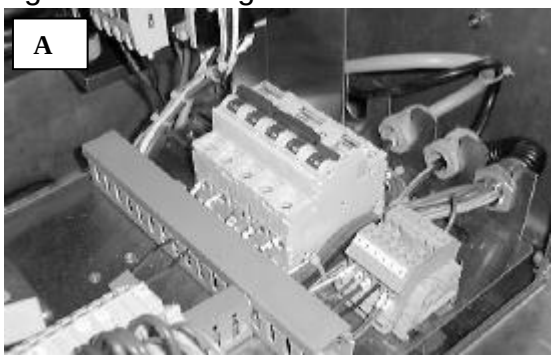
For smooth operation and prolonged life the thread within the table adjustment yoke should be re-greased on a 6 monthly basis.

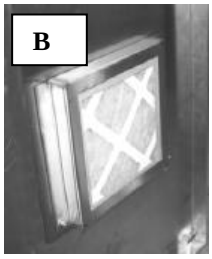
D DRIVE SHAFT CHAIN MECHANISM / E JOG CHAIN

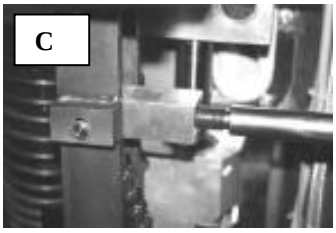
For smooth operation and prolonged life the jog chain and the drive shaft chain mechanism within the casting should be re-greased on a 6 monthly basis.

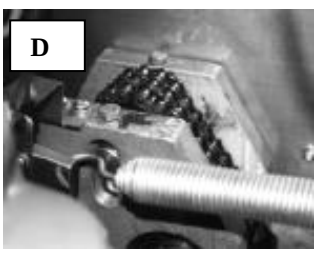
F LINEAR BEARINGS

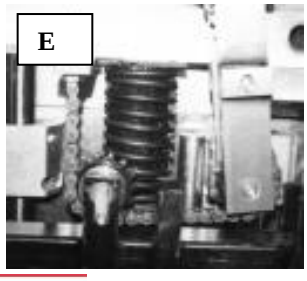
For smooth operation and prolonged life the drive shaft chain mechanism within the casting should be re-greased on a 6 monthly basis.

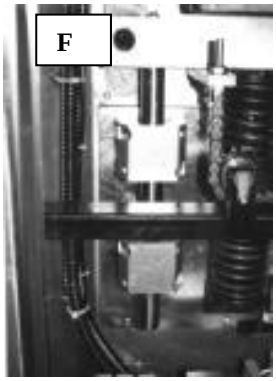












16.0 SPARES AND SERVICE

If a fault arises, please do not hesitate to contact the
Customer Service Department, quoting the **machine serial number**
on the silver information plate of the machine and on the front cover of this manual
.

UK SERVICE:

MILLERS VANGUARD LTD
1 Chesham Fold Road
Bury
Lancashire.
BL9 6LE

email: service@millersvanguard.co.uk
web site: www.Millersvanguard.co.uk

Tel: 0161 7648646
Fax: 0161 7610016

SPARES and OVERSEAS SUPPORT:

MONO
Queensway
Swansea West Industrial Estate
Swansea. SA5 4EB UK

email:spares@monoequip.com
Web site:www.monoequip.com

Tel. 01792 561234
Fax. 01792 561016

17.0 Recommended spares list

ELECTRICAL SPARES LIST

Spares Item Description	*Mono Part No.*	*Qty Req. per M/C*
Pour through guard safety switch assy	M077-25-00400	1
Tray sensor assy	077-25-01500	1
Jog position sensor assy	077-25-01400	1
Transformer	B726-31-003	1
Control panel assy	B728-93-010	1
PCB interconnect card	B728-93-009	1
Deposit motor servo amplifier	B739-80-002	1
Tray motor servo amplifier	B739-80-002	1
Rack for servo amplifiers	B739-09-002	1
Deposit motor assy	077-25-01900	1
Tray motor assy	B912-74-021	1
Deposit motor encoder	B742-99-001	1
Stop button	B801-12-003	1
Start button	B801-12-029	1
Start button contact block	B801-14-001	1
Stop button contact block	B801-14-002	1
Varistor	B842-48-002	1
Filter unit	B842-48-009	1
Contactor	B859-08-044	1
Auxiliary contact block	B859-14-088	1
Suppresser diode	B859-48-002	1
Circuit breaker 110VAC supply	B872-22-002	1
Circuit breaker 18-0-18VAC supply	B872-22-075	1
Circuit breaker 72VAC supply	B872-22-098	1
Inverter unit	B807-80-001	1
ROTARY HEAD INVERTER(B807-80-001)		
11/05 ONWARDS	B801-80-010	1
Rotary motor/gearbox	B912-74-019	1
Wirecut motor	B912-74-025	1
Wirecut sensor	B819-99-002	1

BASE MACHINE SPARES LIST

Spares Item Description	*Mono Part No.*	*Qty Req. per M/C*
Flexible bellow	077-01-02600	2
Castor locked	A900-20-043	2
Castor	A900-20-044	2
Air filter	A900-30-001	1
H.D Drive shaft	077-02-00400	1
S.D Drive shaft	077-02-00500	1
Drive gear chain	A900-08-056	1
Drive gear chain link	A900-08-055	1
Main deposit gearbox	A900-11-082	1
Damper	A900-29-013	1
Clutch	077-04-02100	1
(UP TO JUNE '99	*077-04-00100)*	
Jog keeper pin	077-04-00400	1
Link pivot pin	077-04-01100	1
Jog control sleeve	077-04-01200	1
Jog control shaft	077-04-01300	1
Jog chain assy	077-04-02000	1
Jog sensor trigger plate	077-04-01900	1
Table adjuster shaft *077-05-00100*	077-05-01200 (matched set)	1
Yoke *077-05-00200*		
Yoke pin	077-05-00300	2
Upper sprocket pin	077-05-00500	1
Lower sprocket pin	077-05-00600	1
Fixed sprocket pin	077-05-010**	1
Jog sprocket	077-05-01100	3
Table drive roller shaft	077-06-00600	1
Table drive roller shaft (motor in side position)	077-22-00100	1
Table idler shaft	077-06-00700	1
Table motor drive shaft	077-06-00800	1
Table bearings	077-06-01700	2
Table drive belt (old machines)	*A900-21-079*	*1*
Conveyor belt	A900-22-101	2
Rotary drive gear	077-09-00500	1
Rotary drive shaft	077-09-00100	1
Cutting wire (wirecut)	A900-25-285	1

HOPPER SPARES LIST

- *HOPPER **400mm** WIDE*

Spares Item Description	***Mono Part No.***	***Qty Req. per M/C***
Template clamp strip	073-09-00400	1
End cap - drive side	073-09-00500	1
End cap - non drive end	073-09-00502	1
End cap bush	073-09-00600	4
Template clamp stud	073-09-01000	4
End cap stud	073-09-01100	4
Hopper stud	073-09-01200	2
End cap ‘O’ ring	A900-12-074	2
Hopper seal	A900-12-083	1
Clamp strip nut	072-07-20902	4

- *HOPPER **450mm** WIDE*

Spares Item Description	***Mono Part No.***	***Qty Req. per M/C***
Template clamp strip	073-09-00402	1
End cap - drive side	073-09-00500	1
End cap - non drive end	073-09-00502	1
End cap bush	073-09-00600	4
Template clamp stud	073-09-01000	4
End cap stud	073-09-01100	4
Hopper stud	073-09-01200	2
End cap ‘O’ ring	A900-12-074	2
Hopper seal	A900-12-084	1
Clamp strip nut	072-07-20902	4

18.0 ELECTRICAL INFORMATION

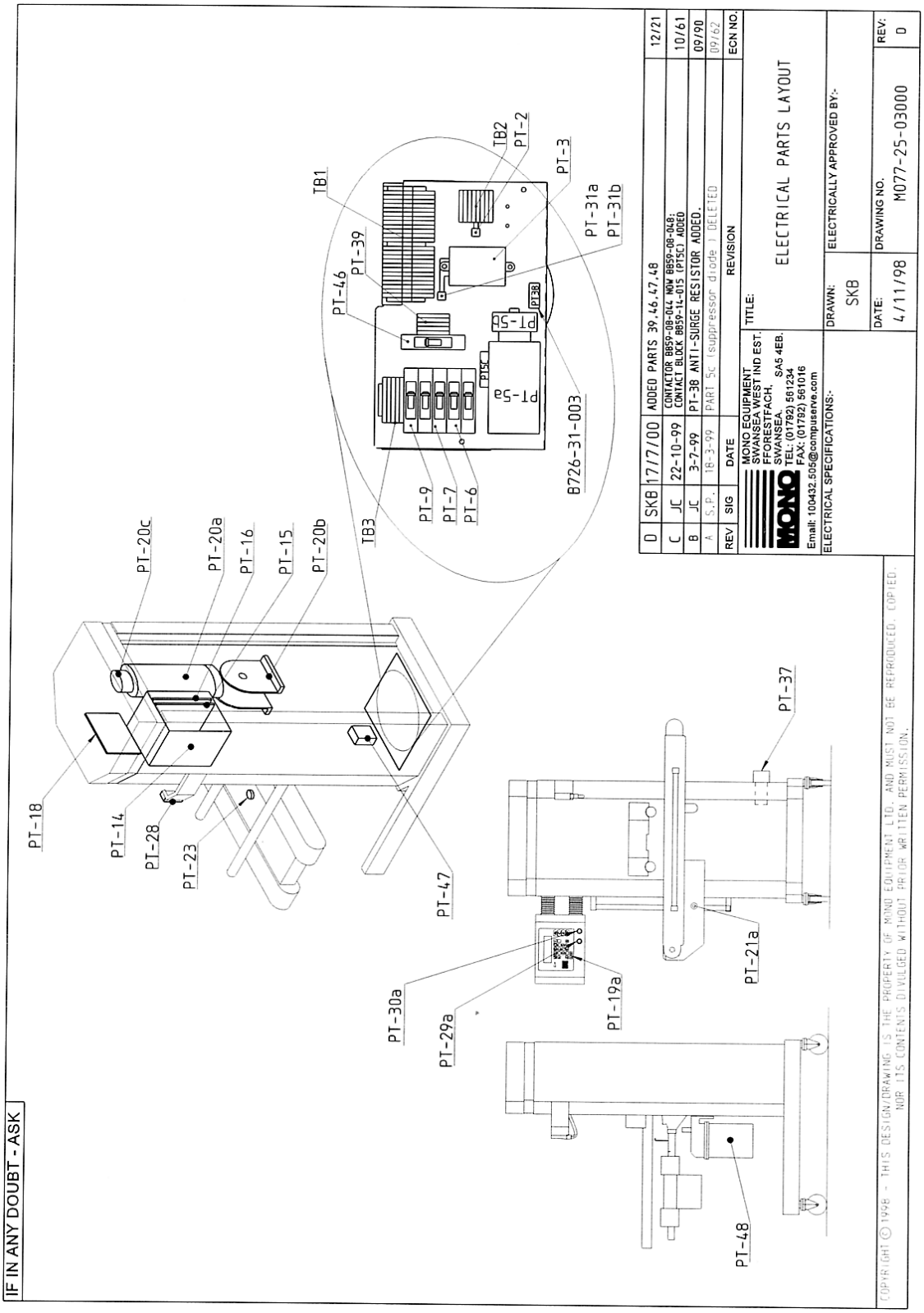
SECTION “A” - BASIC MACHINE

SECTION “B” - WIRECUT VERSION

SECTION “C” - ROTARY VERSION

SECTION “D” - ROTARY & WIRECUT VERSION

SECTION "A"
BASIC MACHINE


IF IN ANY DOUBT - ASK
PT-18
PT-14
PT-28
PT-23
PT-20c
PT-20a
PT-16
PT-15
PT-20b
IB3
PT-47
PT-9
PT-7
PT-6
TB1
PT-46
PT-39
TB2
PT-2
PT-3
PT-31a
PT-31b
B726-31-003
PT-37
PT-21a
PT-19a
PT-30a
PT-29a
PT-48
D SKB 17/7/00 ADDED PARTS 39.46.47.48 12/21
C JC 22-10-99 CONTACTOR BB59-08-044 NOW BB59-08-048; CONTACT BLOCK BB59-14-015 (PT5C) ADDED 10/61
B JC 3-7-99 PT-38 ANTI-SURGE RESISTOR ADDED. 09/90
A S.P. 18-3-99 PART 5c (suppressor diode) DELETED 09/62
REV SIG DATE REVISION ECN NO.
MONO EQUIPMENT
SWANSEA WEST IND EST.
FFORESTFACH,
SWANSEA. SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 561016
Email: 100432.505@compuserve.com
TITLE:
ELECTRICAL PARTS LAYOUT
ELECTRICAL SPECIFICATIONS:-
DRAWN: SKB
ELECTRICALLY APPROVED BY:-
DATE: 4/11/98
DRAWING NO. M077-25-03000
REV: D
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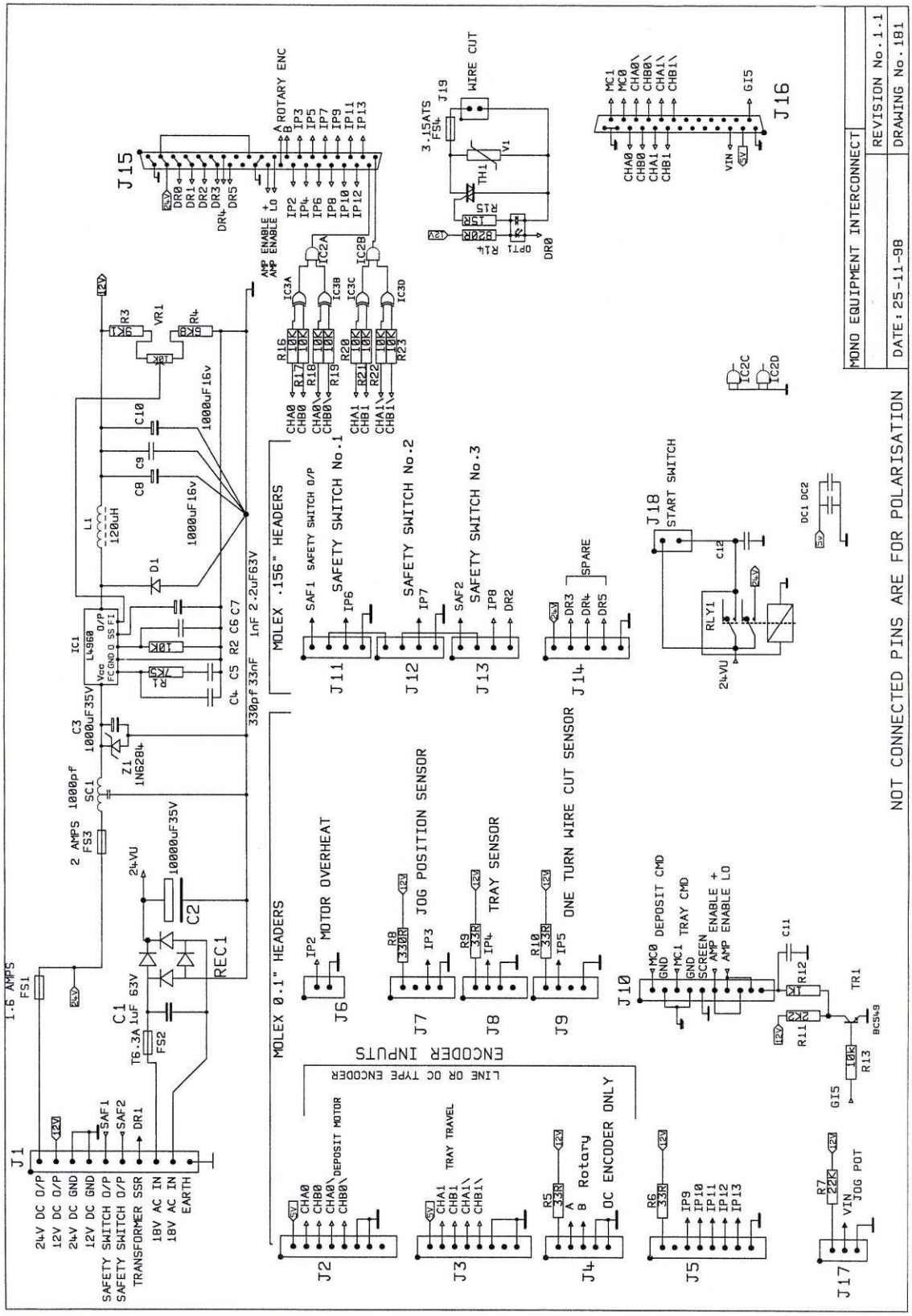
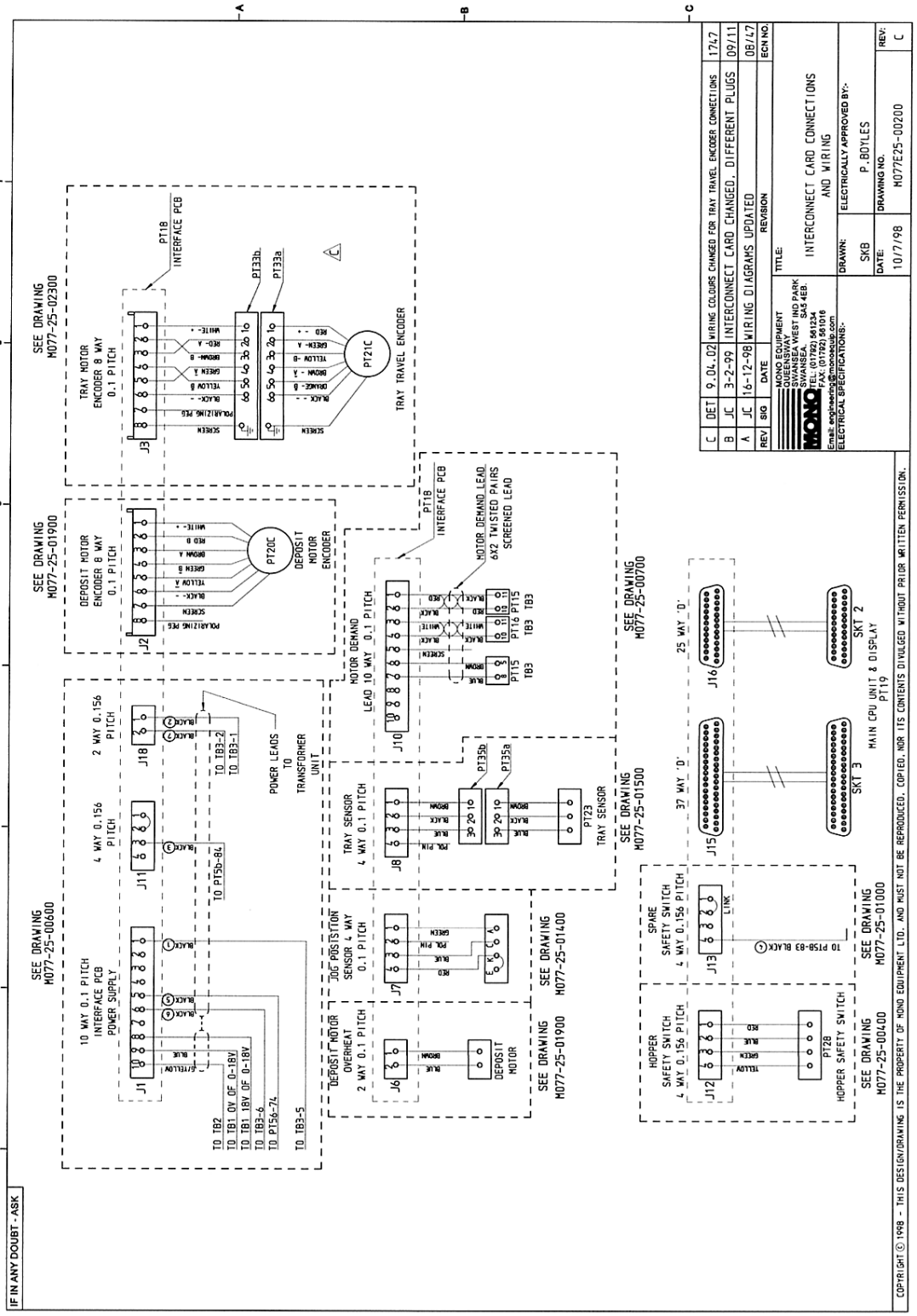
ELECTRICAL COMPONENT LAYOUT PARTS LIST

DRAWING PT-Ref	DESCRIPTION	MONO PART NUMBER
PT-1	SLEEVE	B842-48-008
PT-2	VARISTOR	B842-48-002
PT-3	FILTER UNIT	B842-48-009
PT-5a	MAIN CONTACTOR N' 1	B859-08-048
PT-5b	AUXILIARY CONTACT BLOCK	B859-14-011
PT-5c	AUXILIARY CONTACT BLOCK	B859-14-015
PT-6	DEPOSIT CONTROLLER 72 VAC SUPPLY M.C.B.	B872-22-098
PT-7	DEPOSIT CONTROLLER 18-0-18 VAC BUS SUPPLY M.C.B.	B872-22-075
PT-9	FAN POWER SUPPLY M.C.B.	B872-22-002
PT-11	TRANSFORMER	B726-31-003
PT-14	CONTROLLER UNIT ENCLOSURE & POWER SUPPLY UNIT	B739-09-002
PT-15	DEPOSIT MOTOR CONTROLLER	B739-80-002
PT-16	TRAY TRAVEL MOTOR CONTROLLER	B739-80-002
PT-18	INTERFACE P.C.B. UNIT	B728-93-009
PT-19a	COMPUTER DISPLAY UNIT	B728-93-010
PT-19b	25 WAY RIBBON LEAD	B728-63-002
PT-19c	37 WAY RIBBON LEAD	B728-63-004
PT-20a	DEPOSIT DRIVE MOTOR.	B741-74-004
PT-20b	DEPOSIT DRIVE MOTOR GEARBOX	A900-11-076
PT-20c	DEPOSIT MOTOR ENCODER	B742-99-001
PT-21a	TRAY TRAVEL DRIVE MOTOR.	B912-74-021
PT-23	TRAY SENSOR UNIT	B735-99-001
PT-27	JOG POSITION SENSOR	B842-99-001
PT-28	HOPPER SAFETY SWITCH	B818-07-010
PT-29a	STOP BUTTON	B801-12-003
PT-29b	STOP BUTTON CONTACT BLOCK	B801-14-002
PT-30a	START BUTTON	B801-12-029
PT-30b	START BUTTON CONTACT BLOCK	B801-14-004
PT31a	TRANSFORMER SUPPRESSOR CAPACITOR	B900-48-003
PT-31b	TRANSFORMER SUPPRESSOR V.D.R.	B842-48-002
PT-32	FAN MOTOR SUPPRESSOR CAPACITOR	B900-48-002
PT-33a	TRAY TRAVEL ENCODER PLUG	B900-06-004
PT-33b	TRAY TRAVEL ENCODER SOCKET	B900-25-004
PT-34a	TRAY TRAVEL MOTOR PLUG HOOD	B715-25-011
PT-34a	TRAY TRAVEL MOTOR PLUG INSERT	B715-25-006
PT-34b	TRAY TRAVEL MOTOR SOCKET MOUNTING BASE	B715-06-001
PT-34b	TRAY TRAVEL MOTOR SOCKET INSERT	B715-06-005
PT-35a	TRAY SENSOR PLUG	B900-06-003
PT-35b	TRAY SENSOR SOCKET	B900-25-003
PT-37	MAIN ROTARY ISOLATOR SWITCH	B748-03-002
PT-37	MAIN ROTARY ISOLATOR SWITCH (AMERICAN)	B748-03-003
PT-38	SURGE SUPPRESSOR RESISTOR	B842-59-014

COMPONENT LAYOUT PARTS LIST

DRAWING PT-Ref	DESCRIPTION	*MONO* PART NUMBER
PT 39	MAIN CONTACTOR N' 2	B859-08-055
PT 40	WIRECUT MOTOR FUSE ON INERFACE PCB	B842-85-026
PT 41	WIRECUT ONE TURN SENSOR	B919-99-002
PT 42	WIRECUT MOTOR UNIT	B912-74-025
PT 43	FRONT ACCESS COVER SAFETY SWITCH	B818-07-010
PT 44	REAR ACCESS COVER SAFETY SWITCH	B818-07-010
PT 45	WIRECUT TEMPLATE SENSOR	B819-99-002
PT 46	ROTARY HEAD MOTOR MCB	B872-22-064
PT 47	ROTARY HEAD INVERTER (B807-80-001) 11/05 ONWARDS	B801-80-010
PT 48	ROTARY HEAD MOTOR	B912-74-019


MONO EQUIPMENT INTERCONNECT
REVISION No.1.1
DRAWING No.181
DATE: 25-11-98
NOT CONNECTED PINS ARE FOR POLARISATION
MOLEX .156" HEADERS
MOLEX 0.1" HEADERS
ENCODER INPUTS
LINE OR DC TYPE ENCODER
SAFETY SWITCH No.1
SAFETY SWITCH No.2
SAFETY SWITCH No.3
MOTOR OVERHEAT
JOG POSITION SENSOR
TRAY SENSOR
ONE TURN WIRE CUT SENSOR
DEPOSIT MOTOR
TRAY TRAVEL
OC ENCODER ONLY
ROTARY ENC
WIRE CUT
START SWITCH
SPARE
DEPOSIT CMD
TRAY CMD
SCREEN
AMP ENABLE +
AMP ENABLE LO
JOG POT
24V DC O/P
12V DC O/P
24V DC GND
12V DC GND
SAFETY SWITCH O/P
SAFETY SWITCH O/P
TRANSFORMER SSR
18V AC IN
18V AC IN
EARTH
1.6 AMPS
2 AMPS
L4960
1N6284
BC549
24-VU
J1
J2
J3
J4
J5
J6
J7
J8
J9
J10
J11
J12
J13
J14
J15
J16
J17
J18


IF IN ANY DOUBT - ASK
SEE DRAWING M077-25-00600
SEE DRAWING M077-25-02300
SEE DRAWING M077-25-01900
SEE DRAWING M077-25-00700
SEE DRAWING M077-25-01500
SEE DRAWING M077-25-01900
SEE DRAWING M077-25-01400
SEE DRAWING M077-25-00400
SEE DRAWING M077-25-01000
10 WAY 0.1 PITCH INTERFACE PCB POWER SUPPLY
4 WAY 0.156 PITCH
2 WAY 0.156 PITCH
TRAY MOTOR ENCODER 8 WAY 0.1 PITCH
DEPOSIT MOTOR ENCODER 8 WAY 0.1 PITCH
PT18 INTERFACE PCB
PT33b
PT33a
PT21C
TRAY TRAVEL ENCODER
PT20C
DEPOSIT MOTOR ENCODER
MOTOR DEMAND LEAD 10 WAY 0.1 PITCH
MOTOR DEMAND LEAD 6X2 TWISTED PAIRS SCREENED LEAD
PT16 PT15 TB3
PT15 TB3
POWER LEADS TO TRANSFORMER UNIT
TO TB3-2
TO TB3-1
TO PT5b-84
TO TB2
TO TB1 0V OF 0-18V
TO TB1 18V OF 0-18V
TO TB3-6
TO PT5b-74
TO TB3-5
DEPOSIT MOTOR OVERHEAT 2 WAY 0.1 PITCH
DEPOSIT MOTOR
JOG POSITION SENSOR 4 WAY 0.1 PITCH
TRAY SENSOR 4 WAY 0.1 PITCH
PT35b
PT35a
PT23 TRAY SENSOR
HOPPER SAFETY SWITCH 4 WAY 0.156 PITCH
PT28 HOPPER SAFETY SWITCH
SPARE SAFETY SWITCH 4 WAY 0.156 PITCH
LINK
TO PT5B-83 BLACK
37 WAY 'D'
25 WAY 'D'
SKT 3
MAIN CPU UNIT & DISPLAY PT19
SKT 2
REV DET 9.04.02 WIRING COLOURS CHANGED FOR TRAY TRAVEL ENCODER CONNECTIONS 1747
B JC 3-2-99 INTERCONNECT CARD CHANGED, DIFFERENT PLUGS 09/11
A JC 16-12-98 WIRING DIAGRAMS UPDATED 08/47
REV SIG DATE REVISION ECN NO.
MONO EQUIPMENT QUEENSWAY SWANSEA WEST IND PARK SWANSEA SA5 4EB. TEL: (01792) 561234 FAX: (01792) 561016 Email: engineering@monoequip.com
ELECTRICAL SPECIFICATIONS:-
TITLE: INTERCONNECT CARD CONNECTIONS AND WIRING
DRAWN: SKB
ELECTRICALLY APPROVED BY:- P.BOYLES
DATE: 10/7/98
DRAWING NO. M077E25-00200
REV: C
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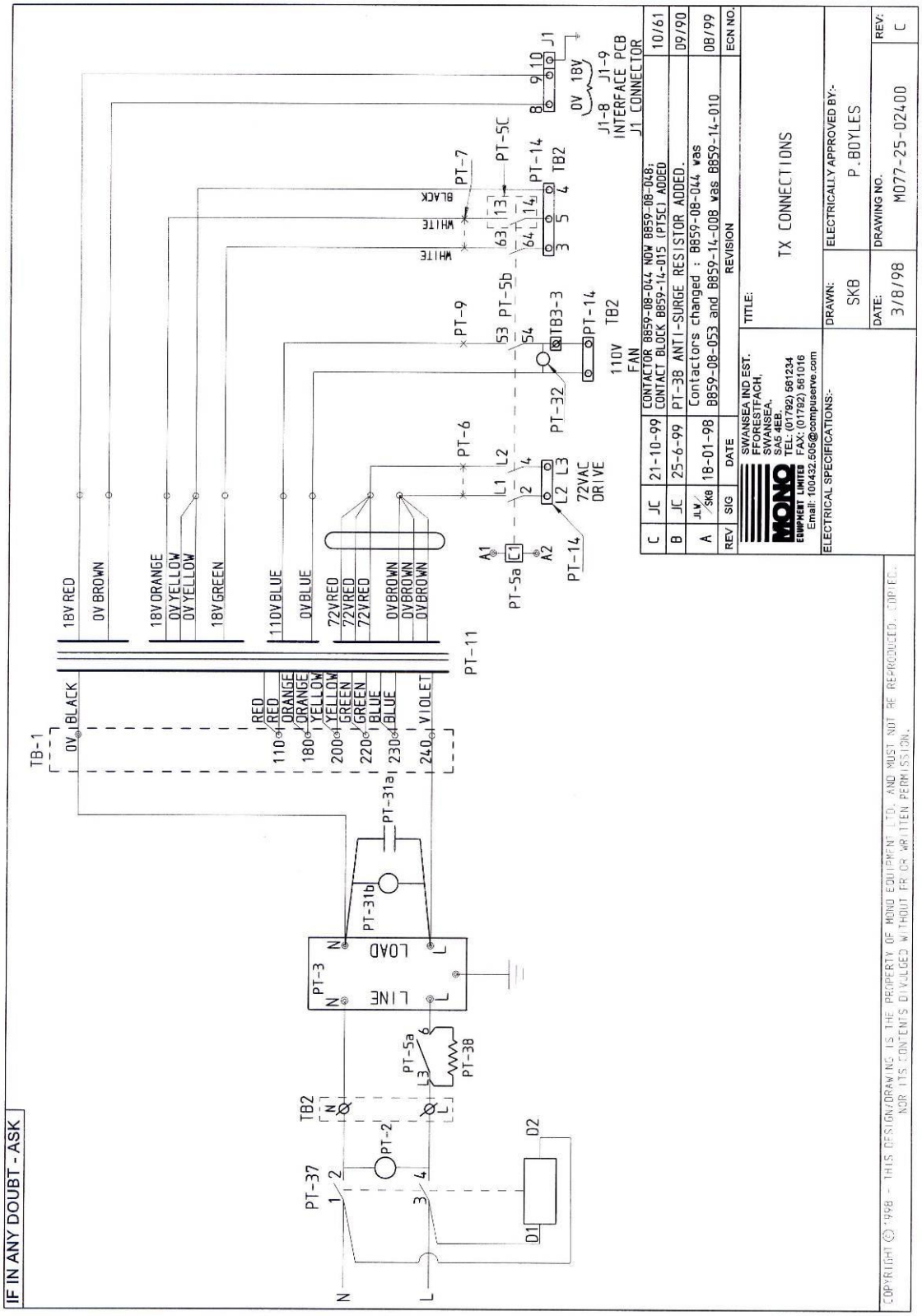
IF IN ANY DOUBT - ASK
TX CONNECTIONS
MONO EQUIPMENT LIMITED
SWANSEA IND EST.
FFORESTFACH,
SWANSEA.
SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 561016
Email: 100432.505@compuserve.com
ELECTRICAL SPECIFICATIONS:-
DRAWN: SKB
DATE: 3/8/98
ELECTRICALLY APPROVED BY:- P.BOYLES
DRAWING NO. M077-25-02400
REV: C
C JC 21-10-99 CONTACTOR B859-08-044 NOW B859-08-048; CONTACT BLOCK B859-14-015 (PT5C) ADDED 10/61
B JC 25-6-99 PT-38 ANTI-SURGE RESISTOR ADDED. 09/90
A JLV/SKB 18-01-98 Contactors changed : B859-08-044 was B859-08-053 and B859-14-008 was B859-14-010 08/99
REV SIG DATE REVISION ECN NO.
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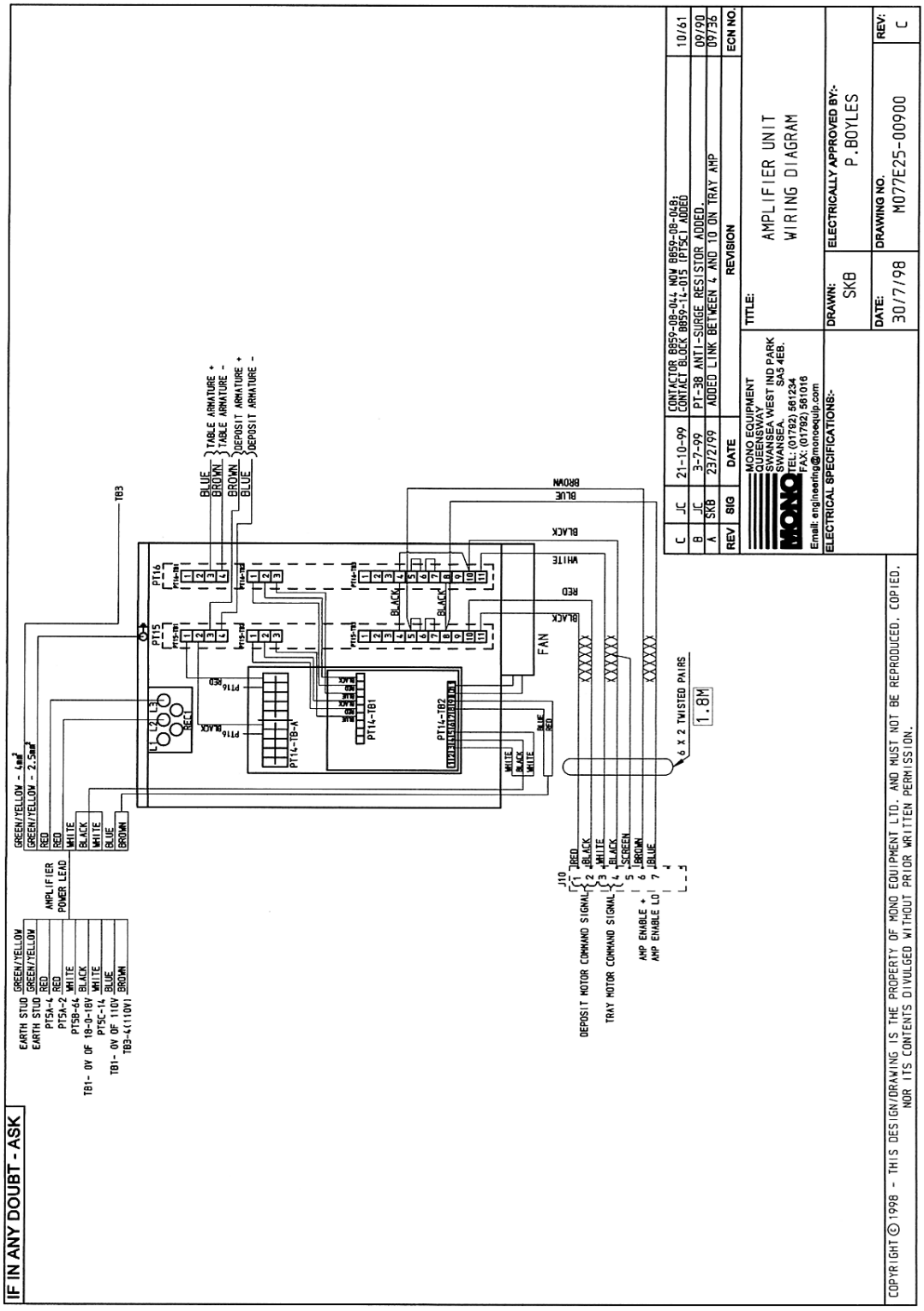
TB-1
PT-11
PT-31a
PT-31b
PT-3
LINE
LOAD
PT-2
PT-37
PT-5a
PT-38
D1
D2
TB2
PT-6
PT-32
PT-5b
PT-5C
PT-7
PT-9
PT-14
TB3-3
72VAC DRIVE
110V FAN
J1-8 J1-9 INTERFACE PCB J1 CONNECTOR
18V RED
0V BROWN
18V ORANGE
0V YELLOW
0V YELLOW
18V GREEN
110V BLUE
0V BLUE
72V RED
72V RED
72V RED
0V BROWN
0V BROWN
0V BROWN
0V BLACK
RED
RED
ORANGE
ORANGE
YELLOW
YELLOW
GREEN
GREEN
BLUE
BLUE
VIOLET
BLACK
WHITE
WHITE
0V 18V


IF IN ANY DOUBT - ASK
AMPLIFIER POWER LEAD
EARTH STUD GREEN/YELLOW
EARTH STUD GREEN/YELLOW
PT5A-1 RED
PT5A-2 WHITE
PT5B-6A BLACK
PT5C-14 WHITE
PT5C-14 BLUE
TB3-4(110V) BROWN
TB1- 0V OF 10-0-10V
TB1- 0V OF 110V
GREEN/YELLOW - 4mm²
GREEN/YELLOW - 2.5mm²
RED
RED
WHITE
BLACK
WHITE
BLUE
BROWN
TB3
PT16
PT15
PT14-TB-A
PT14-TB1
PT14-TB2
L1 L2 L3
RED
BLUE
BROWN
BLACK
WHITE
RED
BLACK
FAN
BLUE
BROWN
BLACK
WHITE
BLACK
BLUE
RED
TABLE ARMATURE +
TABLE ARMATURE -
DEPOSIT ARMATURE +
DEPOSIT ARMATURE -
J10
DEPOSIT MOTOR COMMAND SIGNAL
TRAY MOTOR COMMAND SIGNAL
AMP ENABLE +
AMP ENABLE LO
RED
BLACK
WHITE
BLACK
SCREEN
BROWN
BLUE
6 X 2 TWISTED PAIRS
1.8M
C JC 21-10-99 CONTACTOR 8659-08-044 NOW 8659-08-068; CONTACT BLOCK 8659-14-015 (8175C) ADDED 10/61
B JC 3-7-99 PT-38 ANTI-SURGE RESISTOR ADDED. 09/90
A SKB 23/2/99 ADDED LINK BETWEEN 4 AND 10 ON TRAY AMP 09/35
REV SIG DATE REVISION ECN NO.
MONO EQUIPMENT
QUEENSWAY
SWANSEA WEST IND PARK
SWANSEA.
SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 561016
Email: engineering@monoequip.com
TITLE:
AMPLIFIER UNIT
WIRING DIAGRAM
ELECTRICAL SPECIFICATIONS:-
DRAWN: SKB
DATE: 30/7/98
ELECTRICALLY APPROVED BY:- P.BOYLES
DRAWING NO. M077E25-00900
REV: C
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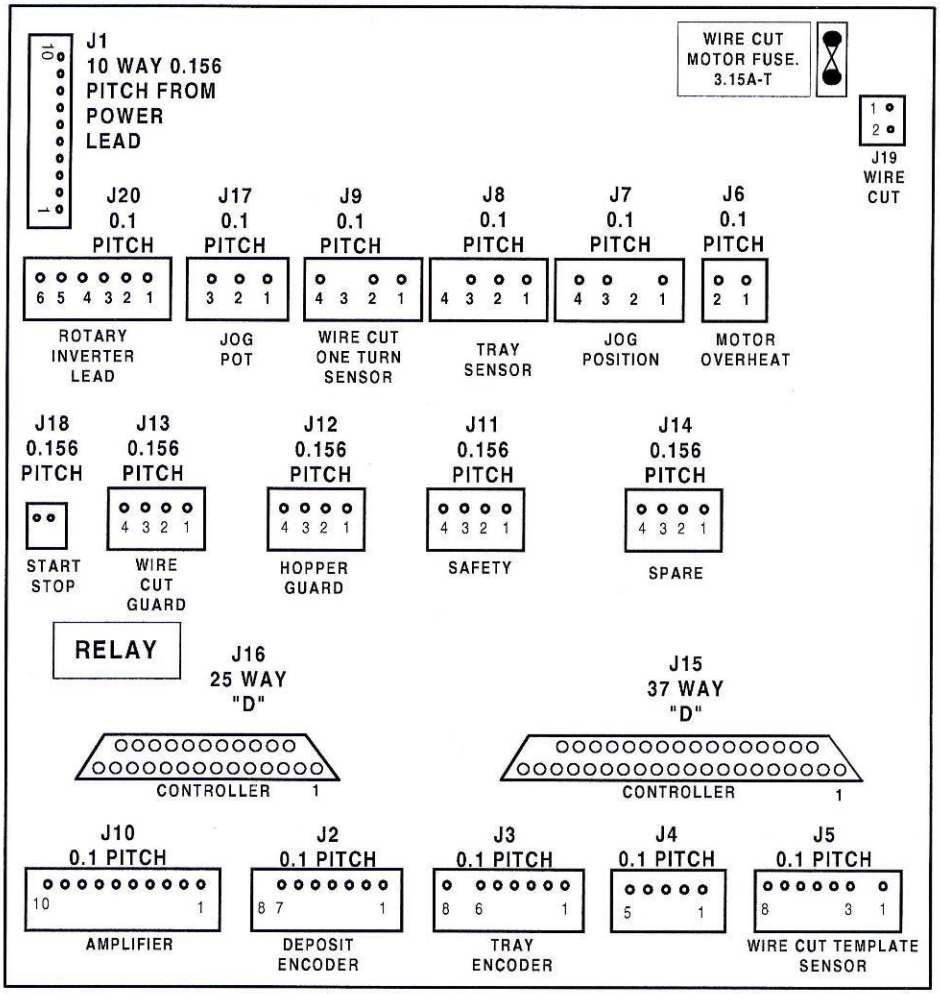
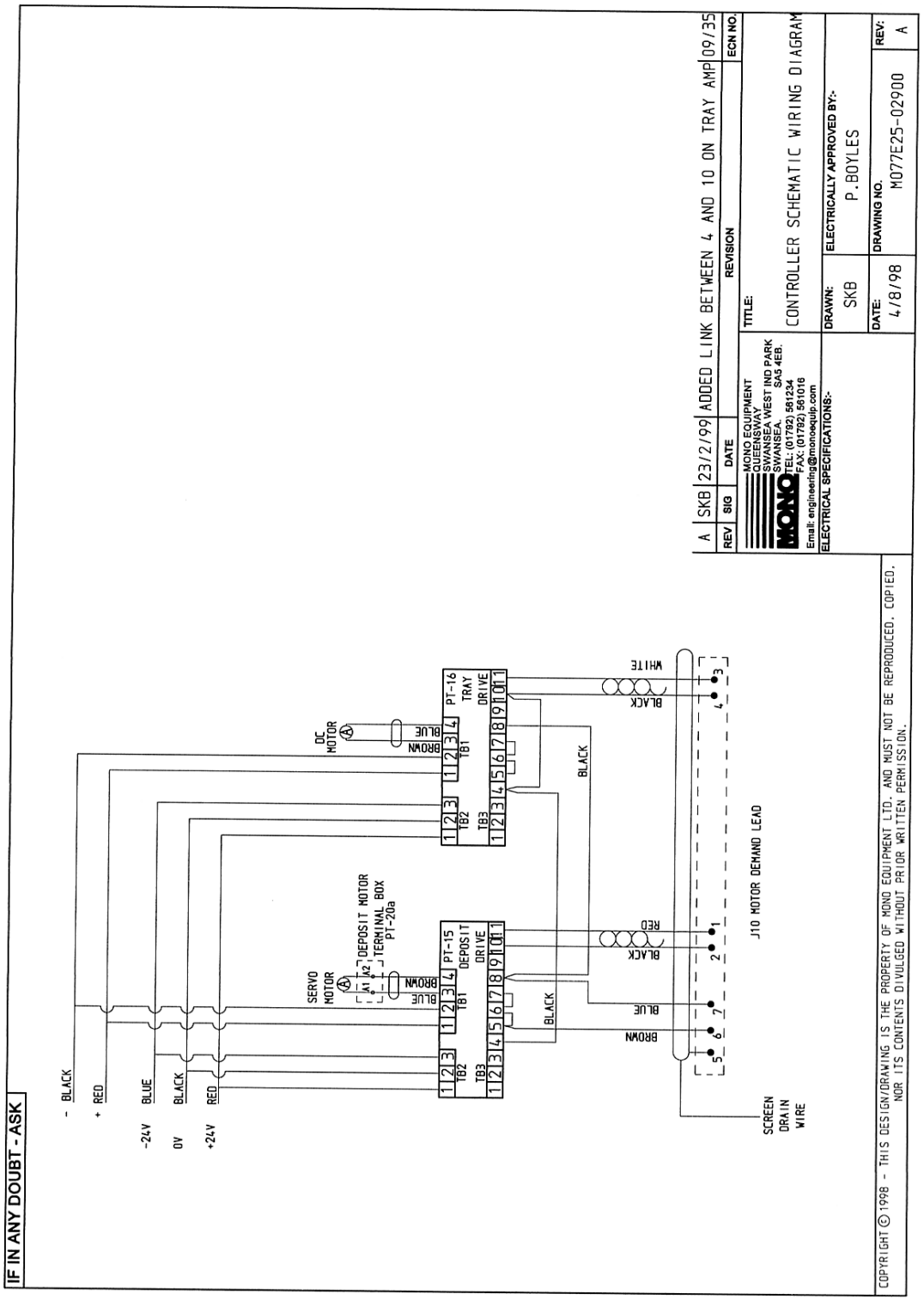


MONO
EQUIPMENT LIMITED
SWANSEA IND EST.
FFORESTFACH,
SWANSEA.
SA5 4EB
TEL: (01792) 561234
FAX: (01792) 561016
Email: 100432.505@compuserve.com

TITLE:
ALPHA DEPOSITOR INTERFACE
PCB. VERSION 1.2

ELECTRICAL SPECIFICATIONS :

DRAWN:	ELECTRICALLY APPROVED BY :	
P.B.	P.BOYLES.	
DATE:	DRAWING NO.	REV:
29-08-00	M077-25-07800	


IF IN ANY DOUBT - ASK
A SKB 23/2/99 ADDED LINK BETWEEN 4 AND 10 ON TRAY AMP 09/35
REV SIG DATE REVISION ECN NO.
MONO EQUIPMENT
QUEENSWAY
SWANSEA WEST IND PARK
SWANSEA.
SA5 4EB.
TEL: (01792) 581234
FAX: (01792) 561016
Email: engineering@monoequip.com
TITLE:
CONTROLLER SCHEMATIC WIRING DIAGRAM
ELECTRICAL SPECIFICATIONS:-
DRAWN: SKB
DATE: 4/8/98
ELECTRICALLY APPROVED BY:- P.BOYLES
DRAWING NO. M077E25-02900
REV: A
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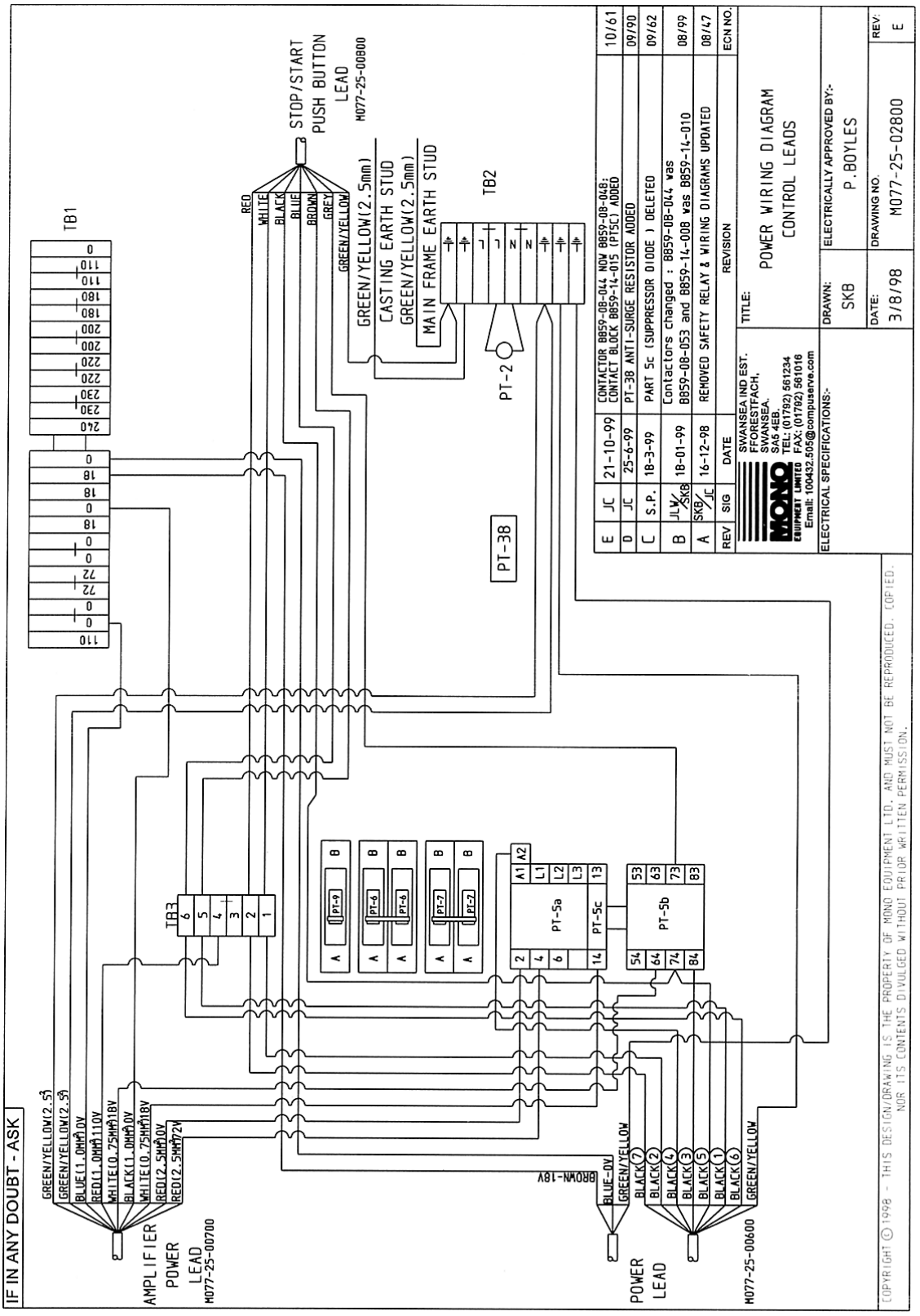
- BLACK
+ RED
-24V BLUE
0V BLACK
+24V RED
DC MOTOR
BROWN
BLUE
PT-16 TRAY DRIVE
TB1
TB2
TB3
SERVO MOTOR
DEPOSIT MOTOR TERMINAL BOX PT-20a
PT-15 DEPOSIT DRIVE
WHITE
BLACK
RED
BLUE
BROWN
J10 MOTOR DEMAND LEAD
SCREEN DRAIN WIRE


IF IN ANY DOUBT - ASK
TB1
TB2
TB3
PT-3B
PT-2
STOP/START PUSH BUTTON LEAD M077-25-00800
GREEN/YELLOW(2.5mm) CASTING EARTH STUD
GREEN/YELLOW(2.5mm) MAIN FRAME EARTH STUD
AMPLIFIER POWER LEAD M077-25-00700
POWER LEAD M077-25-00600
PT-5a
PT-5b
PT-5c
PT-9
PT-6
PT-7
PT-2
TITLE: POWER WIRING DIAGRAM CONTROL LEADS
DRAWN: SKB
DATE: 3/8/98
ELECTRICALLY APPROVED BY:- P.BOYLES
DRAWING NO. M077-25-02800
REV. E
ELECTRICAL SPECIFICATIONS:-
SWANSEA IND EST. FFORESTFACH, SWANSEA. SA5 4EB. TEL: (01792) 561234 FAX: (01792) 561016 Email: 100432.505@compuserve.com
E JC 21-10-99 CONTACTOR B859-08-044 NOW B859-08-048; CONTACT BLOCK B859-14-015 (PT5C) ADDED 10/61
D JC 25-6-99 PT-3B ANTI-SURGE RESISTOR ADDED 09/90
C S.P. 18-3-99 PART 5c (SUPPRESSOR DIODE) DELETED 09/62
B JLW/SKB 18-01-99 Contactors changed : B859-08-044 was B859-08-053 and B859-14-008 was B859-14-010 08/99
A SKB/JC 16-12-98 REMOVED SAFETY RELAY & WIRING DIAGRAMS UPDATED 08/47
REV SIG DATE REVISION ECN NO.
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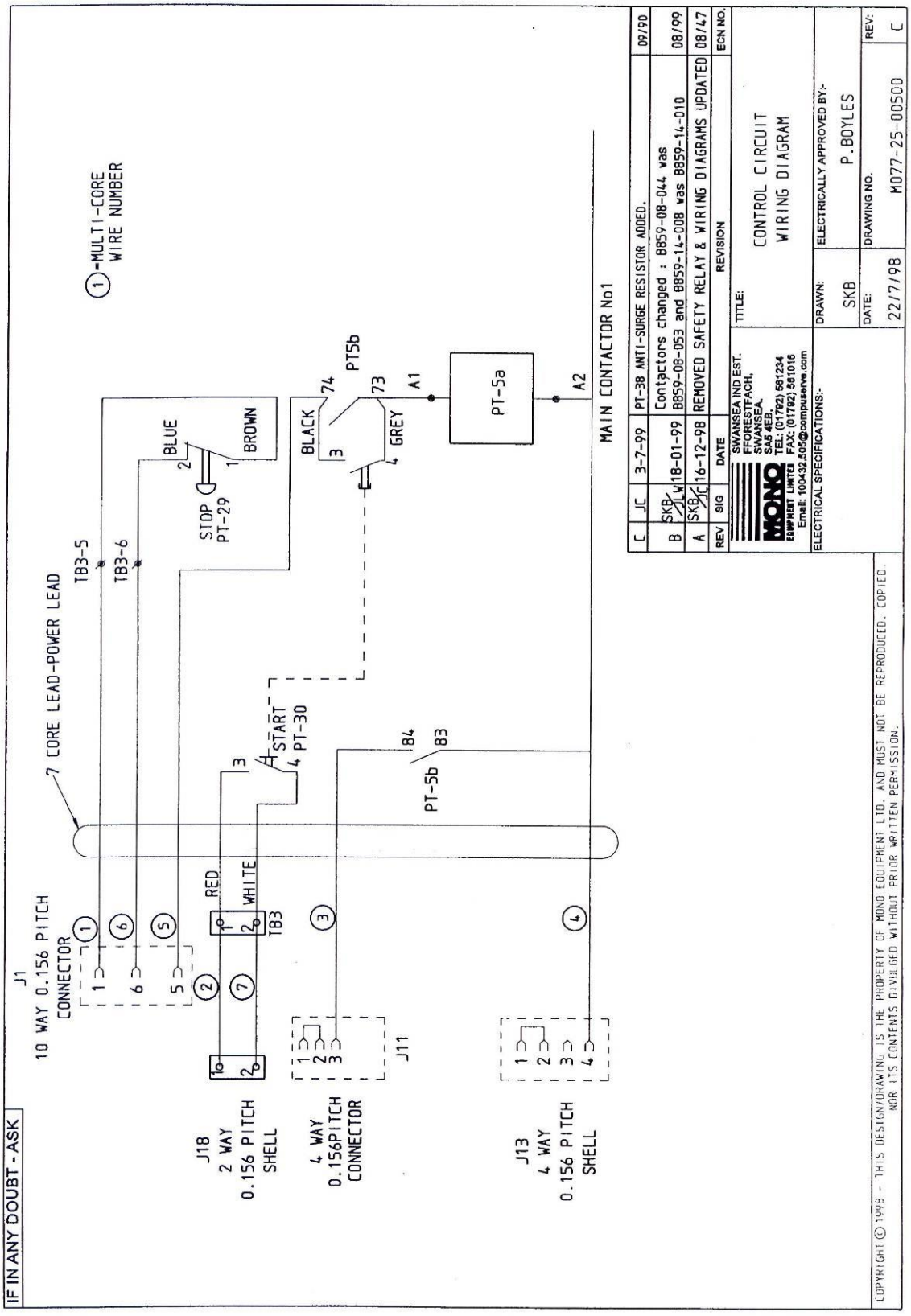
IF IN ANY DOUBT - ASK
1=MULTI-CORE WIRE NUMBER
7 CORE LEAD-POWER LEAD
J1
10 WAY 0.156 PITCH CONNECTOR
TB3-5
TB3-6
BLUE
BROWN
STOP PT-29
BLACK
GREY
PT5b
A1
A2
PT-5a
MAIN CONTACTOR No1
START PT-30
84
83
PT-5b
RED
WHITE
TB3
J18
2 WAY 0.156 PITCH SHELL
4 WAY 0.156PITCH CONNECTOR
J11
J13
4 WAY 0.156 PITCH SHELL
C JC 3-7-99 PT-3B ANTI-SURGE RESISTOR ADDED. 09/00
B SKB 18-01-99 Contactors changed : B859-08-044 was B859-08-053 and B859-14-008 was B859-14-010 08/99
A SKB 16-12-98 REMOVED SAFETY RELAY & WIRING DIAGRAMS UPDATED 08/47
REV SIG DATE REVISION ECN NO.
SWANSEA IND EST. FFORESTFACH, SWANSEA. SA5 4EB. TEL: (01792) 561234 FAX: (01792) 581016 Email: 100432.505@compuserve.com
TITLE: CONTROL CIRCUIT WIRING DIAGRAM
ELECTRICAL SPECIFICATIONS:-
DRAWN: SKB
DATE: 22/7/98
ELECTRICALLY APPROVED BY:- P.BOYLES
DRAWING NO. M077-25-00500
REV: C
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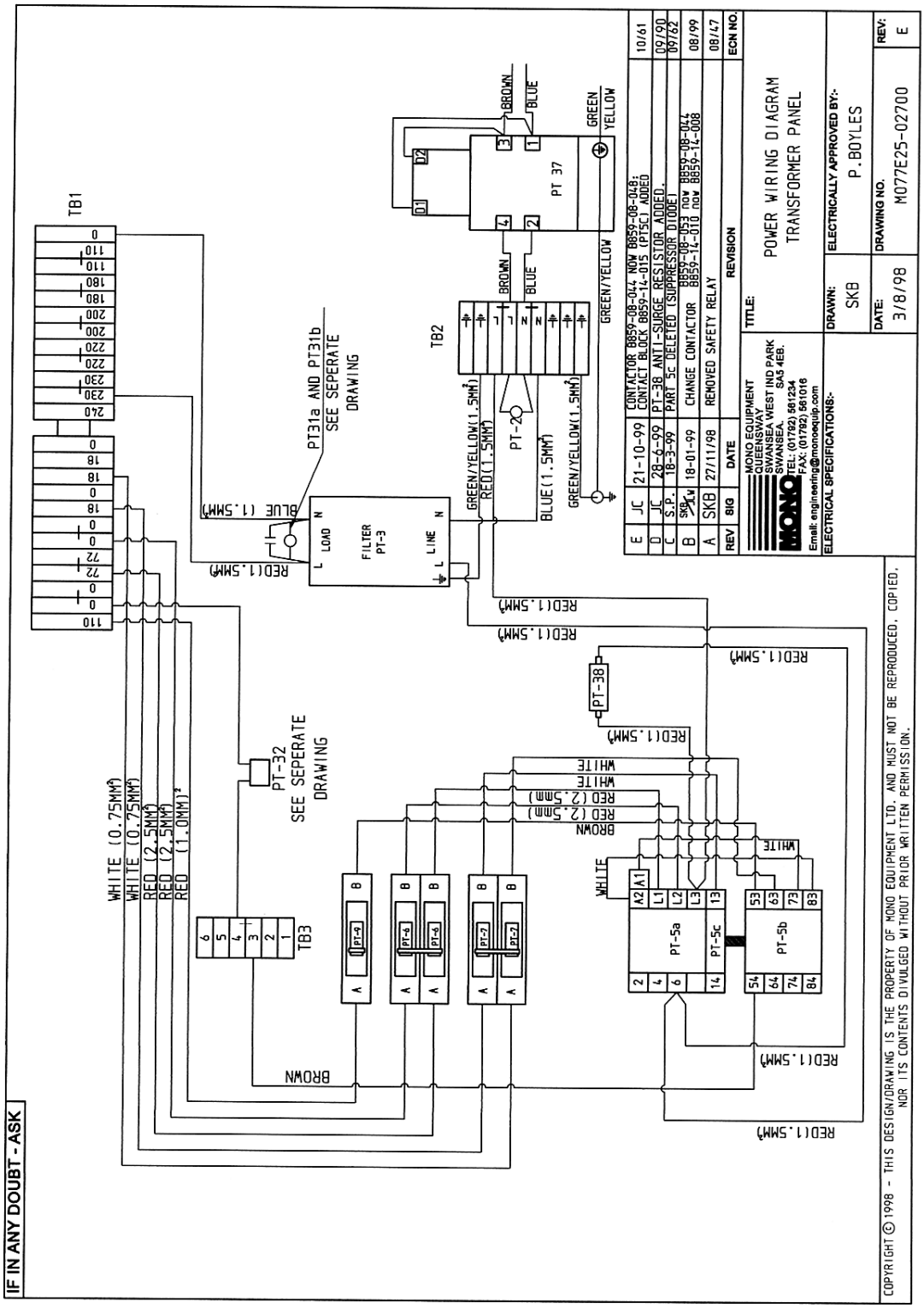
IF IN ANY DOUBT - ASK
TB1
TB2
TB3
PT 37
PT-20
PT-38
PT-32
SEE SEPERATE DRAWING
PT31a AND PT31b
SEE SEPERATE DRAWING
FILTER PT-3
PT-5a
PT-5b
PT-5c
WHITE (0.75MM²)
RED (2.5MM²)
RED (1.0MM²)
BROWN
BLUE
GREEN/YELLOW
BLUE (1.5MM²)
RED(1.5MM²)
GREEN/YELLOW(1.5MM²)
REV
DATE
REVISION
ECN NO.
10/61
09/90
09/62
08/99
08/47
DRAWN:
SKB
DATE:
3/8/98
ELECTRICALLY APPROVED BY:-
P.BOYLES
DRAWING NO.
M077E25-02700
REV:
E
TITLE:
POWER WIRING DIAGRAM
TRANSFORMER PANEL
MONO EQUIPMENT
QUEENSWAY
SWANSEA WEST IND PARK
SWANSEA SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 561016
Email: engineering@monoequip.com
ELECTRICAL SPECIFICATIONS:-
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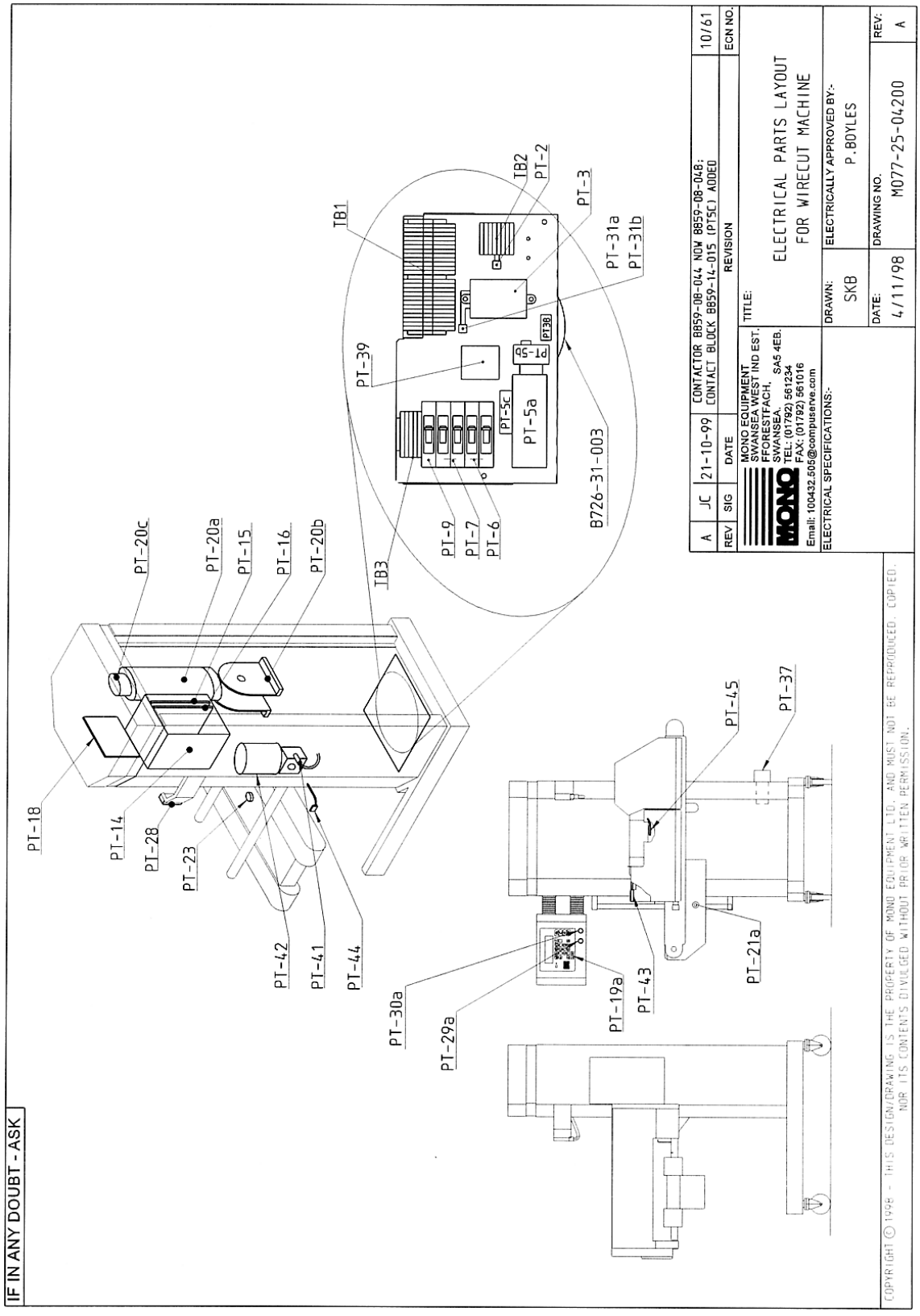
SECTION "B"
WIRECUT VERSION


IF IN ANY DOUBT - ASK
PT-18
PT-14
PT-28
PT-23
PT-20c
PT-20a
PT-15
PT-16
PT-20b
PT-42
PT-41
PT-44
TB1
TB2
TB3
PT-2
PT-3
PT-31a
PT-31b
PT-39
PT-9
PT-7
PT-6
PT-5c
PT-5a
B726-31-003
PT-45
PT-37
PT-30a
PT-29a
PT-19a
PT-43
PT-21a
A | JC | 21-10-99 | CONTACTOR B859-08-044 NOW 8859-08-048; CONTACT BLOCK B859-14-015 (PT5C) ADDED | 10/61
REV | SIG | DATE | REVISION | ECN NO.
MONO EQUIPMENT
SWANSEA WEST IND EST.
FFORESTFACH,
SWANSEA. SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 561016
Email: 100432.505@compuserve.com
TITLE:
ELECTRICAL PARTS LAYOUT
FOR WIRECUT MACHINE
ELECTRICAL SPECIFICATIONS:-
DRAWN: SKB
ELECTRICALLY APPROVED BY:- P.BOYLES
DATE: 4/11/98
DRAWING NO. M077-25-04200
REV: A
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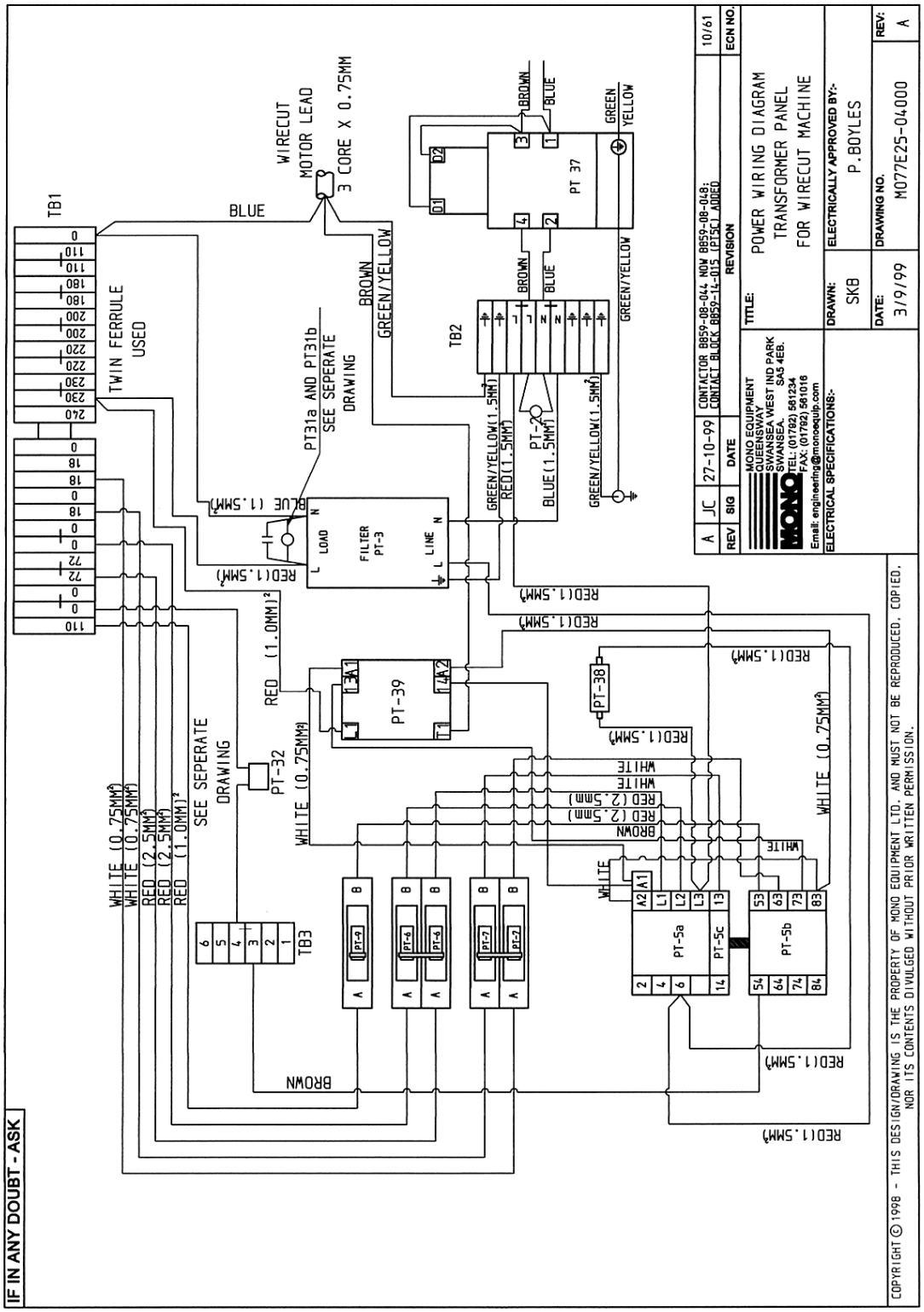
ELECTRICAL COMPONENT LAYOUT PARTS LIST

DRAWING PT-Ref	DESCRIPTION	MONO PART NUMBER
PT-1	SLEEVE	B842-48-008
PT-2	VARISTOR	B842-48-002
PT-3	FILTER UNIT	B842-48-009
PT-5a	MAIN CONTACTOR N' 1	B859-08-048
PT-5b	AUXILIARY CONTACT BLOCK	B859-14-011
PT-5c	AUXILIARY CONTACT BLOCK	B859-14-015
PT-6	DEPOSIT CONTROLLER 72 VAC SUPPLY M.C.B.	B872-22-098
PT-7	DEPOSIT CONTROLLER 18-0-18 VAC BUS SUPPLY M.C.B.	B872-22-075
PT-9	FAN POWER SUPPLY M.C.B.	B872-22-002
PT-11	TRANSFORMER	B726-31-003
PT-14	CONTROLLER UNIT ENCLOSURE & POWER SUPPLY UNIT	B739-09-002
PT-15	DEPOSIT MOTOR CONTROLLER	B739-80-002
PT-16	TRAY TRAVEL MOTOR CONTROLLER	B739-80-002
PT-18	INTERFACE P.C.B. UNIT	B728-93-009
PT-19a	COMPUTER DISPLAY UNIT	B728-93-010
PT-19b	25 WAY RIBBON LEAD	B728-63-002
PT-19c	37 WAY RIBBON LEAD	B728-63-004
PT-20a	DEPOSIT DRIVE MOTOR.	B741-74-004
PT-20b	DEPOSIT DRIVE MOTOR GEARBOX	A900-11-076
PT-20c	DEPOSIT MOTOR ENCODER	B742-99-001
PT-21a	TRAY TRAVEL DRIVE MOTOR.	B912-74-021
PT-23	TRAY SENSOR UNIT	B735-99-001
PT-27	JOG POSITION SENSOR	B842-99-001
PT-28	HOPPER SAFETY SWITCH	B818-07-010
PT-29a	STOP BUTTON	B801-12-003
PT-29b	STOP BUTTON CONTACT BLOCK	B801-14-002
PT-30a	START BUTTON	B801-12-029
PT-30b	START BUTTON CONTACT BLOCK	B801-14-004
PT31a	TRANSFORMER SUPPRESSOR CAPACITOR	B900-48-003
PT-31b	TRANSFORMER SUPPRESSOR V.D.R.	B842-48-002
PT-32	FAN MOTOR SUPPRESSOR CAPACITOR	B900-48-002
PT-33a	TRAY TRAVEL ENCODER PLUG	B900-06-004
PT-33b	TRAY TRAVEL ENCODER SOCKET	B900-25-004
PT-34a	TRAY TRAVEL MOTOR PLUG HOOD	B715-25-011
PT-34a	TRAY TRAVEL MOTOR PLUG INSERT	B715-25-006
PT-34b	TRAY TRAVEL MOTOR SOCKET MOUNTING BASE	B715-06-001
PT-34b	TRAY TRAVEL MOTOR SOCKET INSERT	B715-06-005
PT-35a	TRAY SENSOR PLUG	B900-06-003
PT-35b	TRAY SENSOR SOCKET	B900-25-003
PT-37	MAIN ROTARY ISOLATOR SWITCH	B748-03-002
PT-37	MAIN ROTARY ISOLATOR SWITCH (AMERICAN)	B748-03-003
PT-38	SURGE SUPPRESSOR RESISTOR	B842-59-014

COMPONENT LAYOUT PARTS LIST

DRAWING PT-Ref	DESCRIPTION		*MONO* PART NUMBER
PT 39	MAIN CONTACTOR N' 2		B859-08-055
PT 40	WIRECUT MOTOR FUSE ON INERFACE PCB		B842-85-026
PT 41	WIRECUT ONE TURN SENSOR		B919-99-002
PT 42	WIRECUT MOTOR UNIT		B912-74-025
PT 43	FRONT ACCESS COVER SAFETY SWITCH		B818-07-010
PT 44	REAR ACCESS COVER SAFETY SWITCH		B818-07-010
PT 45	WIRECUT TEMPLATE SENSOR		B819-99-002
PT 46	ROTARY HEAD MOTOR MCB		B872-22-064
PT 47	ROTARY HEAD INVERTER	(B807-80-001) 11/05 ONWARDS	B801-80-010
PT 48	ROTARY HEAD MOTOR		B912-74-019


IF IN ANY DOUBT - ASK
TB1
TWIN FERRULE USED
BLUE
WIRECUT MOTOR LEAD
3 CORE X 0.75MM
BROWN
GREEN/YELLOW
PT31a AND PT31b SEE SEPERATE DRAWING
TB2
PT 37
GREEN/YELLOW
BROWN
BLUE
FILTER PT-3
LOAD
LINE
BLUE (1.5MM²)
RED(1.5MM²)
GREEN/YELLOW(1.5MM²)
PT-2
RED (1.0MM)²
PT-39
PT-32
PT-38
WHITE (0.75MM²)
RED (2.5MM²)
SEE SEPERATE DRAWING
TB3
PT-4
PT-2
PT-5a
PT-5c
PT-5b
WHITE
BROWN
RED(1.5MM²)
A
JC
27-10-99
CONTACTOR B859-08-044 NOW B859-08-048; CONTACT BLOCK B859-14-015 (PT5C) ADDED
10/61
REV
SIG
DATE
REVISION
ECN NO.
MONO EQUIPMENT
QUEENSWAY
SWANSEA WEST IND PARK
SWANSEA.
SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 561018
Email: engineering@monoequip.com
TITLE:
POWER WIRING DIAGRAM
TRANSFORMER PANEL
FOR WIRECUT MACHINE
ELECTRICAL SPECIFICATIONS:-
DRAWN:
SKB
DATE:
3/9/99
ELECTRICALLY APPROVED BY:-
P.BOYLES
DRAWING NO.
M077E25-04000
REV:
A
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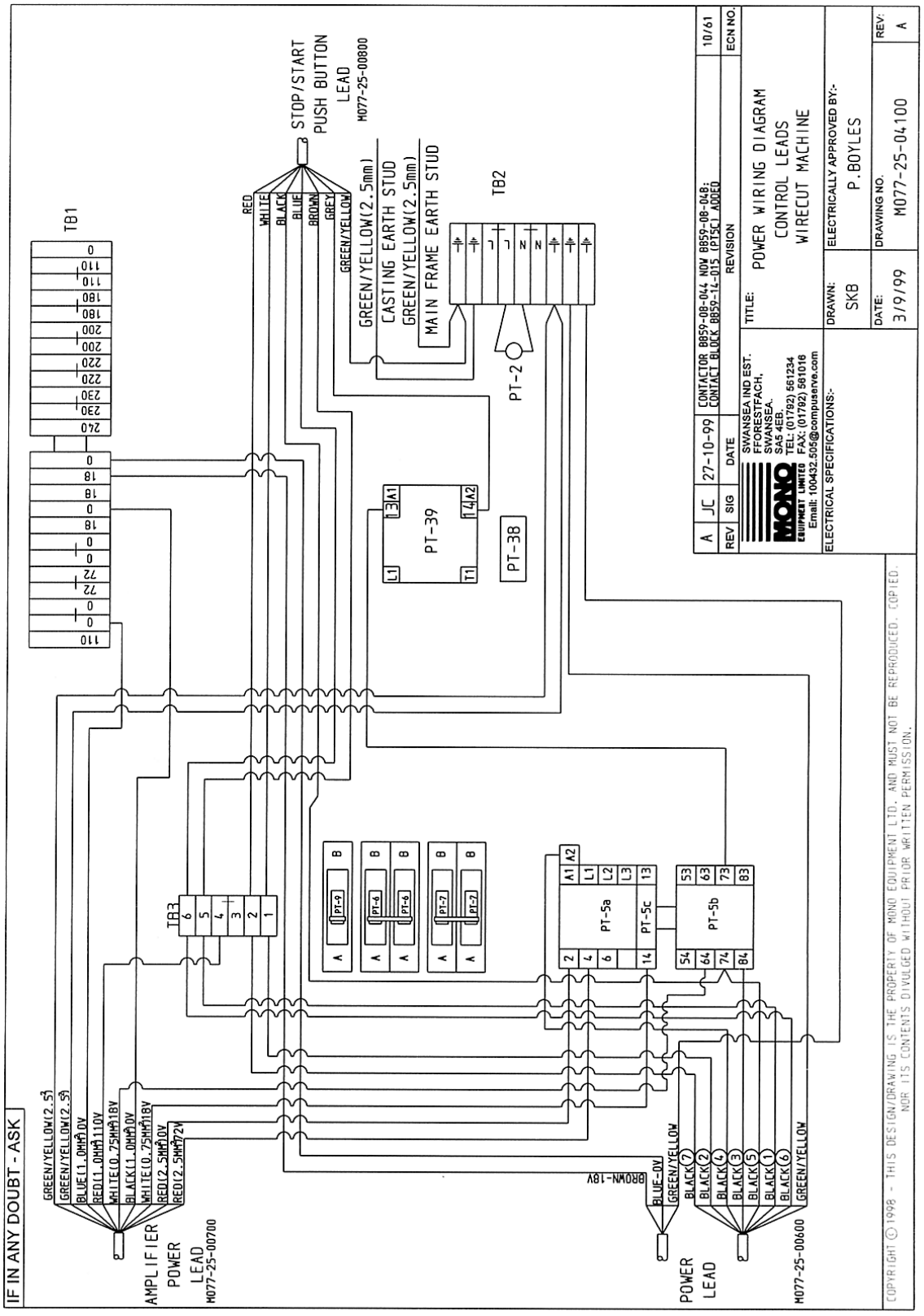
IF IN ANY DOUBT - ASK
TB1
TB2
TB3
STOP/START PUSH BUTTON LEAD M077-25-00800
CASTING EARTH STUD
MAIN FRAME EARTH STUD
PT-2
PT-38
PT-39
PT-5a
PT-5b
PT-5c
AMPLIFIER POWER LEAD M077-25-00700
POWER LEAD M077-25-00600
CONTACTOR 8859-08-044 NOW 8859-08-048;
CONTACT BLOCK 8859-14-015 (PTSC) ADDED
REVISION
DATE
SIG
ECN NO.
10/61
SWANSEA IND EST.
FFORESTFACH,
SWANSEA.
SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 561016
Email: 100432.505@compuserve.com
TITLE: POWER WIRING DIAGRAM
CONTROL LEADS
WIRECUT MACHINE
DRAWN: SKB
DATE: 3/9/99
ELECTRICALLY APPROVED BY:- P.BOYLES
DRAWING NO. M077-25-04100
REV: A
ELECTRICAL SPECIFICATIONS:-
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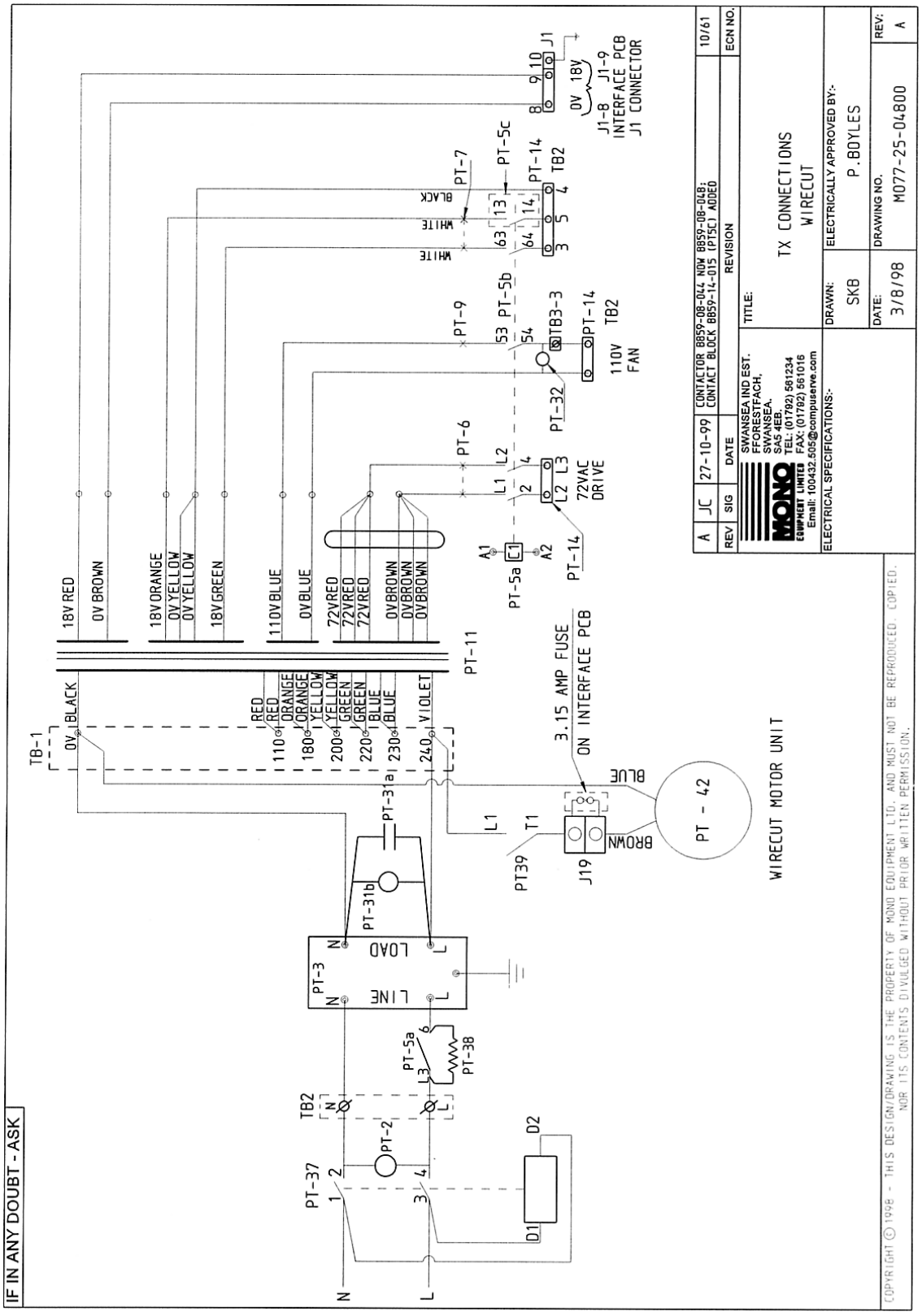
IF IN ANY DOUBT - ASK
TX CONNECTIONS
WIRECUT
M077-25-04800
P.BOYLES
SKB
3/8/98
SWANSEA IND EST.
FFORESTFACH,
SWANSEA.
SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 561016
Email: 100432.505@compuserve.com
CONTACTOR 8859-08-044 NOW 8859-08-048;
CONTACT BLOCK 8859-14-015 (PTSC) ADDED
27-10-99
10/61
WIRECUT MOTOR UNIT
3.15 AMP FUSE ON INTERFACE PCB
J1 CONNECTOR
110V FAN
72VAC DRIVE
PT - 42
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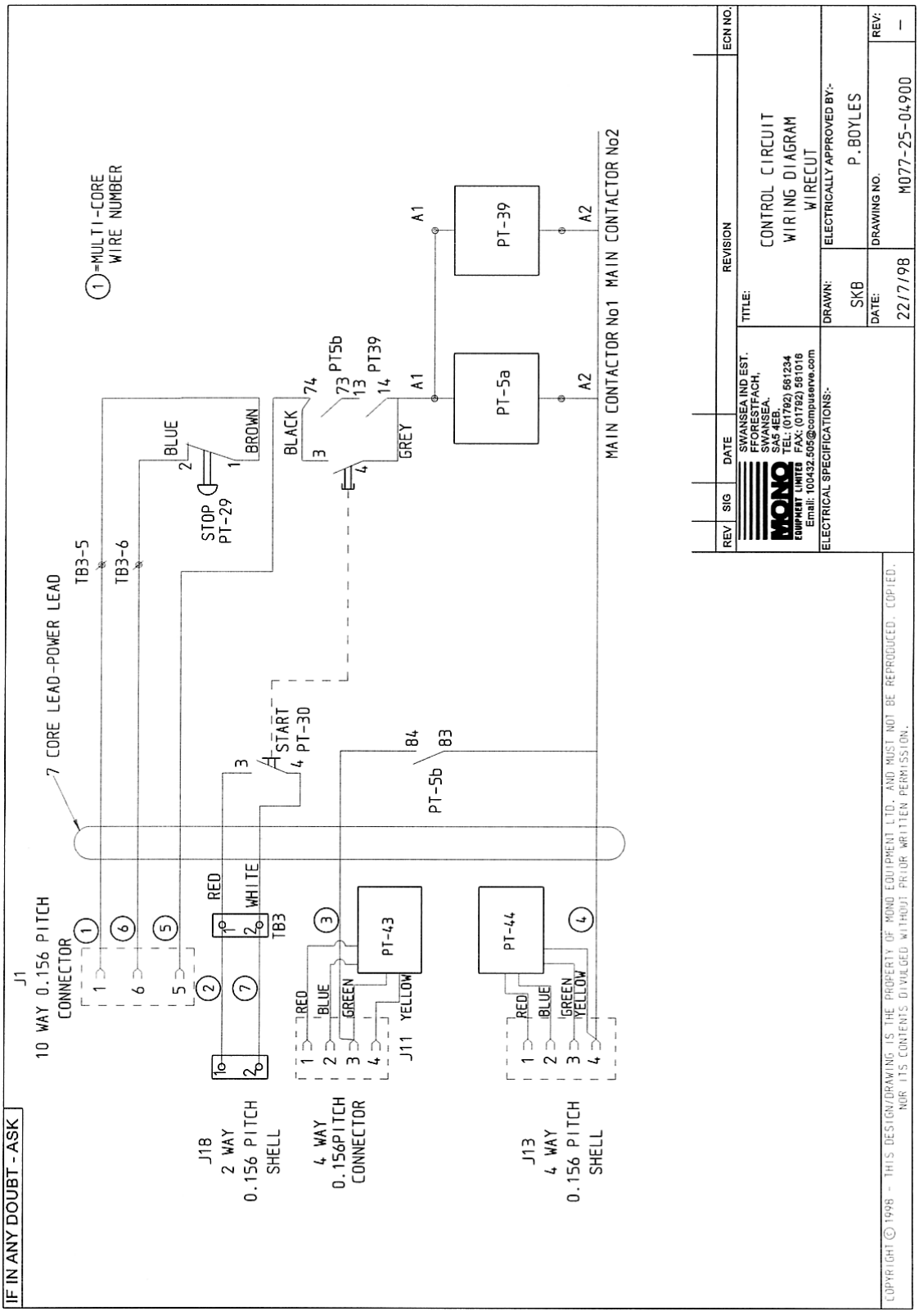
IF IN ANY DOUBT - ASK
J1
10 WAY 0.156 PITCH
CONNECTOR
7 CORE LEAD-POWER LEAD
1=MULTI-CORE
WIRE NUMBER
TB3-5
TB3-6
BLUE
BROWN
STOP
PT-29
BLACK
74
73 PT5b
13
14 PT39
3
4
GREY
A1
A2
PT-5a
PT-39
MAIN CONTACTOR No1 MAIN CONTACTOR No2
START
4 PT-30
3
84
83
PT-5b
RED
WHITE
TB3
J18
2 WAY
0.156 PITCH
SHELL
RED
BLUE
GREEN
YELLOW
J11
PT-43
4 WAY
0.156PITCH
CONNECTOR
PT-44
J13
4 WAY
0.156 PITCH
SHELL
REV
SIG
DATE
REVISION
ECN NO.
SWANSEA IND EST.
FFFORESTFACH,
SWANSEA.
SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 581016
Email: 100432.505@compuserve.com
MONO EQUIPMENT LIMITED
TITLE:
CONTROL CIRCUIT
WIRING DIAGRAM
WIRECUT
ELECTRICAL SPECIFICATIONS:-
DRAWN:
SKB
DATE:
22/7/98
ELECTRICALLY APPROVED BY:-
P.BOYLES
DRAWING NO.
M077-25-04900
REV:
–
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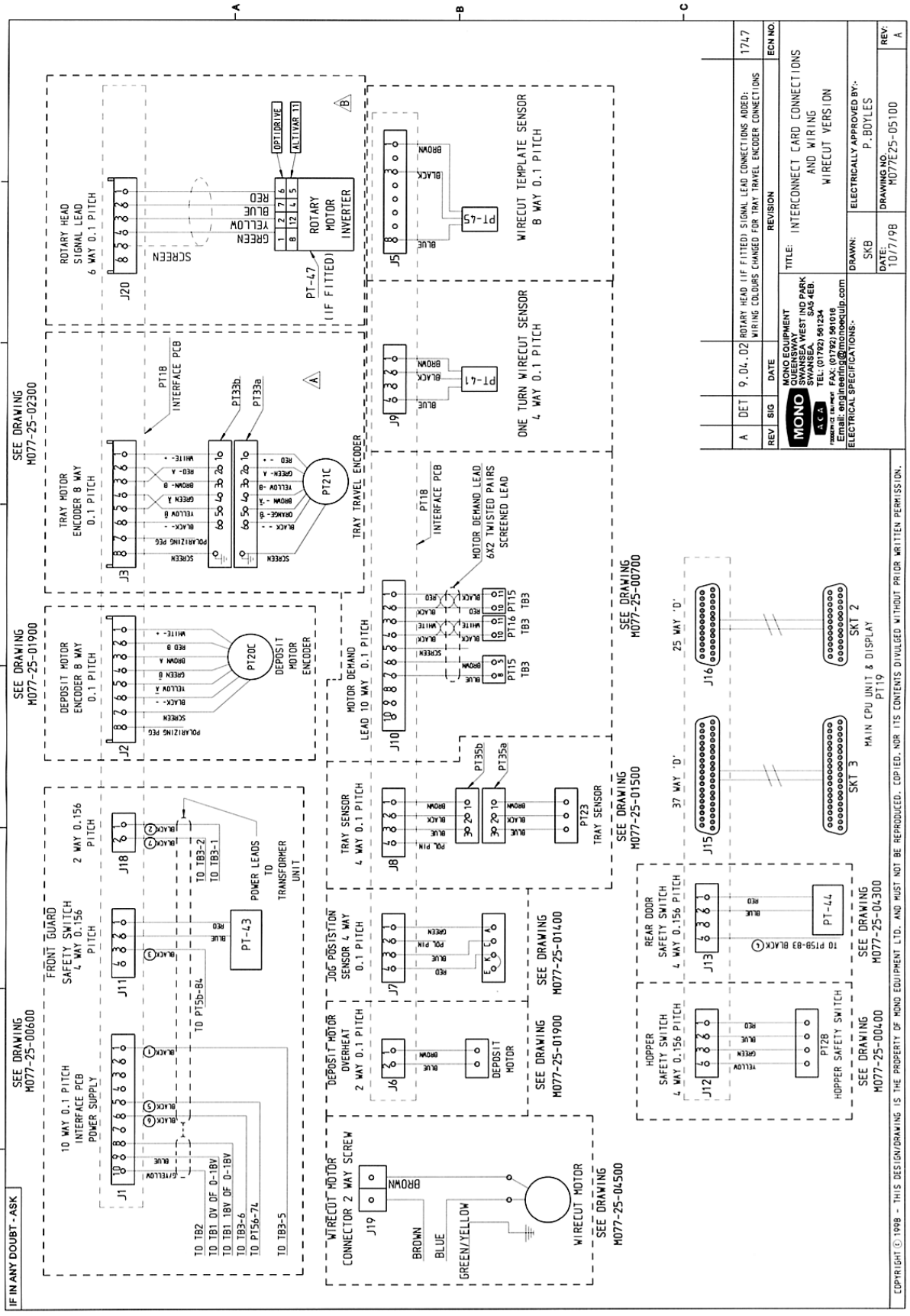
IF IN ANY DOUBT - ASK
INTERCONNECT CARD CONNECTIONS AND WIRING WIRECUT VERSION
MONO EQUIPMENT
SWANSEA WEST IND PARK
SWANSEA.
SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 561016
Email: engineering@monoequip.com
ELECTRICAL SPECIFICATIONS:-
DRAWN: SKB
DATE: 10/7/98
ELECTRICALLY APPROVED BY:- P.BOYLES
DRAWING NO. M077E25-05100
REV: A
ECN NO. 1747
ROTARY HEAD (IF FITTED) SIGNAL LEAD CONNECTIONS ADDED: WIRING COLOURS CHANGED FOR TRAY TRAVEL ENCODER CONNECTIONS
9.04.02
DET
SEE DRAWING M077-25-00600
SEE DRAWING M077-25-02300
SEE DRAWING M077-25-01900
SEE DRAWING M077-25-00700
SEE DRAWING M077-25-01500
SEE DRAWING M077-25-01400
SEE DRAWING M077-25-04300
SEE DRAWING M077-25-00400
SEE DRAWING M077-25-04500
FRONT GUARD SAFETY SWITCH 4 WAY 0.156 PITCH
10 WAY 0.1 PITCH INTERFACE PCB POWER SUPPLY
2 WAY 0.156 PITCH
TO TB2
TO TB1 0V OF 0-18V
TO TB1 18V OF 0-18V
TO TB3-6
TO PT56-74
TO TB3-5
TO TB3-2
TO TB3-1
TO PT50-84
POWER LEADS TO TRANSFORMER UNIT
PT-43
WIRECUT MOTOR CONNECTOR 2 WAY SCREW
BROWN
BLUE
GREEN/YELLOW
WIRECUT MOTOR
DEPOSIT MOTOR OVERHEAT 2 WAY 0.1 PITCH
DEPOSIT MOTOR
JOG POSITION SENSOR 4 WAY 0.1 PITCH
TRAY SENSOR 4 WAY 0.1 PITCH
PT123 TRAY SENSOR
DEPOSIT MOTOR ENCODER 8 WAY 0.1 PITCH
PT20C DEPOSIT MOTOR ENCODER
MOTOR DEMAND LEAD 10 WAY 0.1 PITCH
MOTOR DEMAND LEAD 6X2 TWISTED PAIRS SCREENED LEAD
PT115 PT116 PT15 TB3 TB3
TRAY MOTOR ENCODER 8 WAY 0.1 PITCH
PT18 INTERFACE PCB
PT133b PT133a
PT121C TRAY TRAVEL ENCODER
ROTARY HEAD SIGNAL LEAD 6 WAY 0.1 PITCH
SCREEN
GREEN
YELLOW
BLUE
RED
ROTARY MOTOR INVERTER
OPTIDRIVE
ALTIVAR 11
PT-47 (IF FITTED)
ONE TURN WIRECUT SENSOR 4 WAY 0.1 PITCH
PT-41
WIRECUT TEMPLATE SENSOR 8 WAY 0.1 PITCH
PT-45
37 WAY 'D'
25 WAY 'D'
MAIN CPU UNIT & DISPLAY PT19
SKT 3
SKT 2
REAR DOOR SAFETY SWITCH 4 WAY 0.156 PITCH
10 PT59-83 BLACK
PT-44
HOPPER SAFETY SWITCH 4 WAY 0.156 PITCH
PT28 HOPPER SAFETY SWITCH
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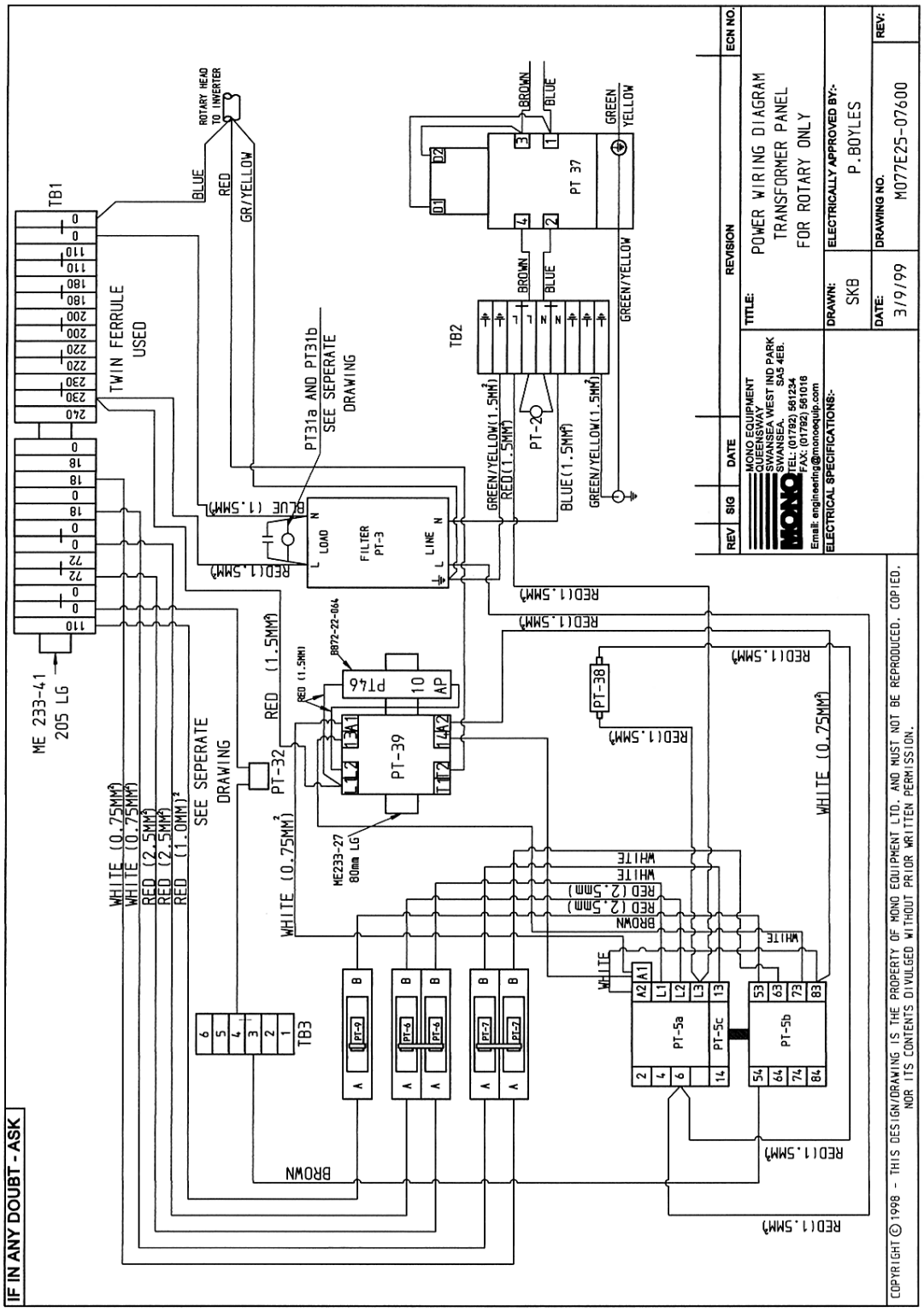
SECTION "C"
ROTARY VERSION

ELECTRICAL COMPONENT LAYOUT PARTS LIST

DRAWING PT-Ref	DESCRIPTION	MONO PART NUMBER
PT-1	SLEEVE	B842-48-008
PT-2	VARISTOR	B842-48-002
PT-3	FILTER UNIT	B842-48-009
PT-5a	MAIN CONTACTOR N' 1	B859-08-048
PT-5b	AUXILIARY CONTACT BLOCK	B859-14-011
PT-5c	AUXILIARY CONTACT BLOCK	B859-14-015
PT-6	DEPOSIT CONTROLLER 72 VAC SUPPLY M.C.B.	B872-22-098
PT-7	DEPOSIT CONTROLLER 18-0-18 VAC BUS SUPPLY M.C.B.	B872-22-075
PT-9	FAN POWER SUPPLY M.C.B.	B872-22-002
PT-11	TRANSFORMER	B726-31-003
PT-14	CONTROLLER UNIT ENCLOSURE & POWER SUPPLY UNIT	B739-09-002
PT-15	DEPOSIT MOTOR CONTROLLER	B739-80-002
PT-16	TRAY TRAVEL MOTOR CONTROLLER	B739-80-002
PT-18	INTERFACE P.C.B. UNIT	B728-93-009
PT-19a	COMPUTER DISPLAY UNIT	B728-93-010
PT-19b	25 WAY RIBBON LEAD	B728-63-002
PT-19c	37 WAY RIBBON LEAD	B728-63-004
PT-20a	DEPOSIT DRIVE MOTOR.	B741-74-004
PT-20b	DEPOSIT DRIVE MOTOR GEARBOX	A900-11-076
PT-20c	DEPOSIT MOTOR ENCODER	B742-99-001
PT-21a	TRAY TRAVEL DRIVE MOTOR.	B912-74-021
PT-23	TRAY SENSOR UNIT	B735-99-001
PT-27	JOG POSITION SENSOR	B842-99-001
PT-28	HOPPER SAFETY SWITCH	B818-07-010
PT-29a	STOP BUTTON	B801-12-003
PT-29b	STOP BUTTON CONTACT BLOCK	B801-14-002
PT-30a	START BUTTON	B801-12-029
PT-30b	START BUTTON CONTACT BLOCK	B801-14-004
PT31a	TRANSFORMER SUPPRESSOR CAPACITOR	B900-48-003
PT-31b	TRANSFORMER SUPPRESSOR V.D.R.	B842-48-002
PT-32	FAN MOTOR SUPPRESSOR CAPACITOR	B900-48-002
PT-33a	TRAY TRAVEL ENCODER PLUG	B900-06-004
PT-33b	TRAY TRAVEL ENCODER SOCKET	B900-25-004
PT-34a	TRAY TRAVEL MOTOR PLUG HOOD	B715-25-011
PT-34a	TRAY TRAVEL MOTOR PLUG INSERT	B715-25-006
PT-34b	TRAY TRAVEL MOTOR SOCKET MOUNTING BASE	B715-06-001
PT-34b	TRAY TRAVEL MOTOR SOCKET INSERT	B715-06-005
PT-35a	TRAY SENSOR PLUG	B900-06-003
PT-35b	TRAY SENSOR SOCKET	B900-25-003
PT-37	MAIN ROTARY ISOLATOR SWITCH	B748-03-002
PT-37	MAIN ROTARY ISOLATOR SWITCH (AMERICAN)	B748-03-003
PT-38	SURGE SUPPRESSOR RESISTOR	B842-59-014

COMPONENT LAYOUT PARTS LIST

DRAWING PT-Ref	DESCRIPTION		*MONO* PART NUMBER
PT 39	MAIN CONTACTOR N' 2		B859-08-055
PT 40	WIRECUT MOTOR FUSE ON INERFACE PCB		B842-85-026
PT 41	WIRECUT ONE TURN SENSOR		B919-99-002
PT 42	WIRECUT MOTOR UNIT		B912-74-025
PT 43	FRONT ACCESS COVER SAFETY SWITCH		B818-07-010
PT 44	REAR ACCESS COVER SAFETY SWITCH		B818-07-010
PT 45	WIRECUT TEMPLATE SENSOR		B819-99-002
PT 46	ROTARY HEAD MOTOR MCB		B872-22-064
PT 47	ROTARY HEAD INVERTER	(B807-80-001) 11/05 ONWARDS	B801-80-010
PT 48	ROTARY HEAD MOTOR		B912-74-019


IF IN ANY DOUBT - ASK
TITLE: POWER WIRING DIAGRAM TRANSFORMER PANEL FOR ROTARY ONLY
DRAWN: SKB
ELECTRICALLY APPROVED BY:- P.BOYLES
DATE: 3/9/99
DRAWING NO. M077E25-07600
REV:
ECN NO.
REVISION
DATE
SIG
REV
MONO EQUIPMENT QUEENSWAY SWANSEA WEST IND PARK SWANSEA. SA5 4EB. TEL: (01792) 561234 FAX: (01792) 561016 Email: engineering@monoequip.com
ELECTRICAL SPECIFICATIONS:-
TB1
TB2
TB3
TWIN FERRULE USED
ROTARY HEAD TO INVERTER
BLUE
RED
GR/YELLOW
BROWN
BLUE
GREEN YELLOW
GREEN/YELLOW
PT 37
PT31a AND PT31b SEE SEPERATE DRAWING
FILTER PT-3
LOAD
LINE
PT-2
GREEN/YELLOW(1.5MM²)
RED(1.5MM²)
BLUE(1.5MM²)
BLUE (1.5MM²)
RED(1.5MM²)
ME 233-41 205 LG
PT-32
RED (1.5MM²)
SEE SEPERATE DRAWING
WHITE (0.75MM²)
RED (2.5MM²)
RED (1.0MM²)
PT-39
B872-22-064
ME233-27 80mm LG
PT-38
WHITE (0.75MM²)
RED (2.5mm)
PT-5a
PT-5c
PT-5b
PT-3
PT-4
PT-7
PT-8
BROWN
WHITE
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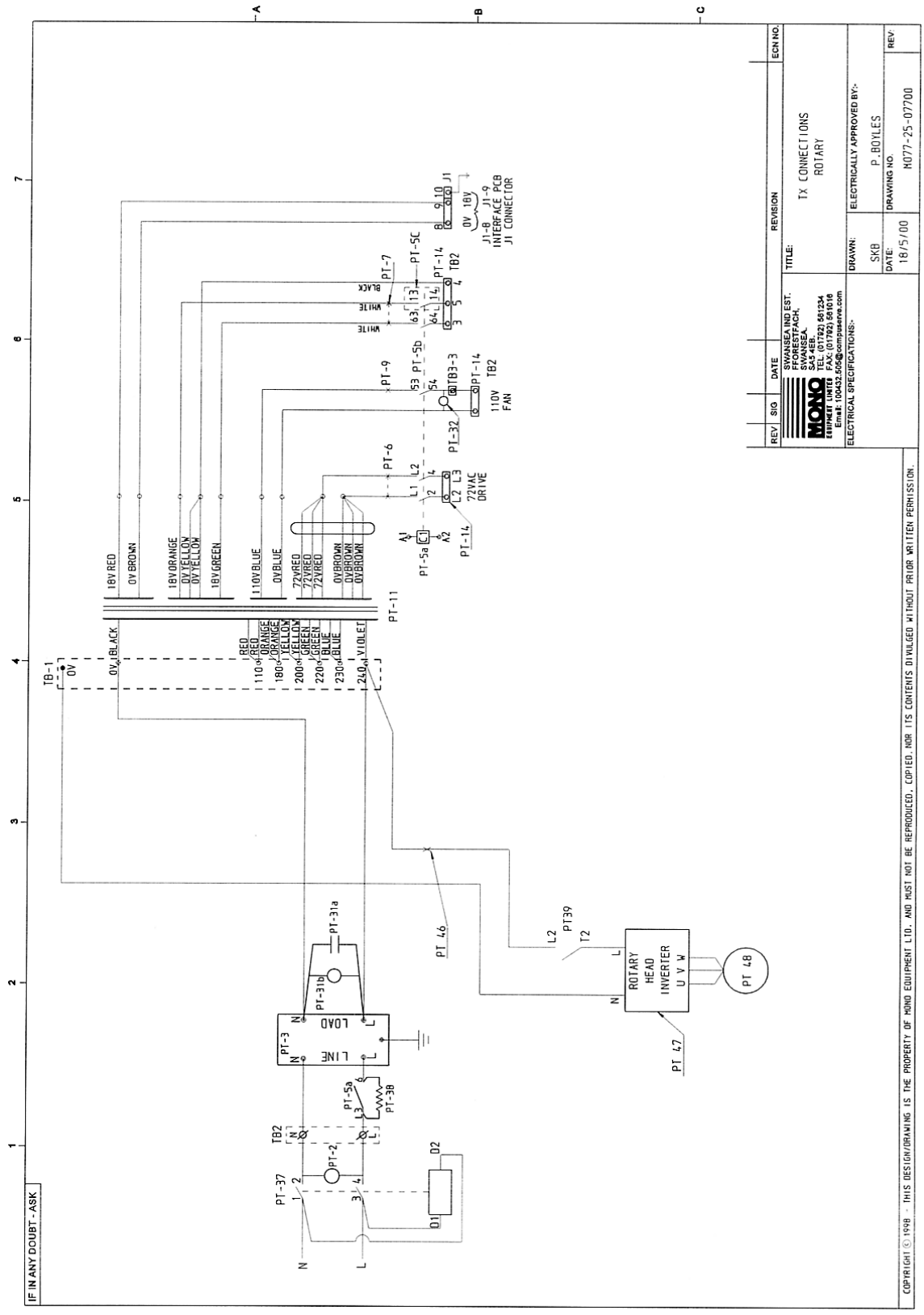
IF IN ANY DOUBT - ASK
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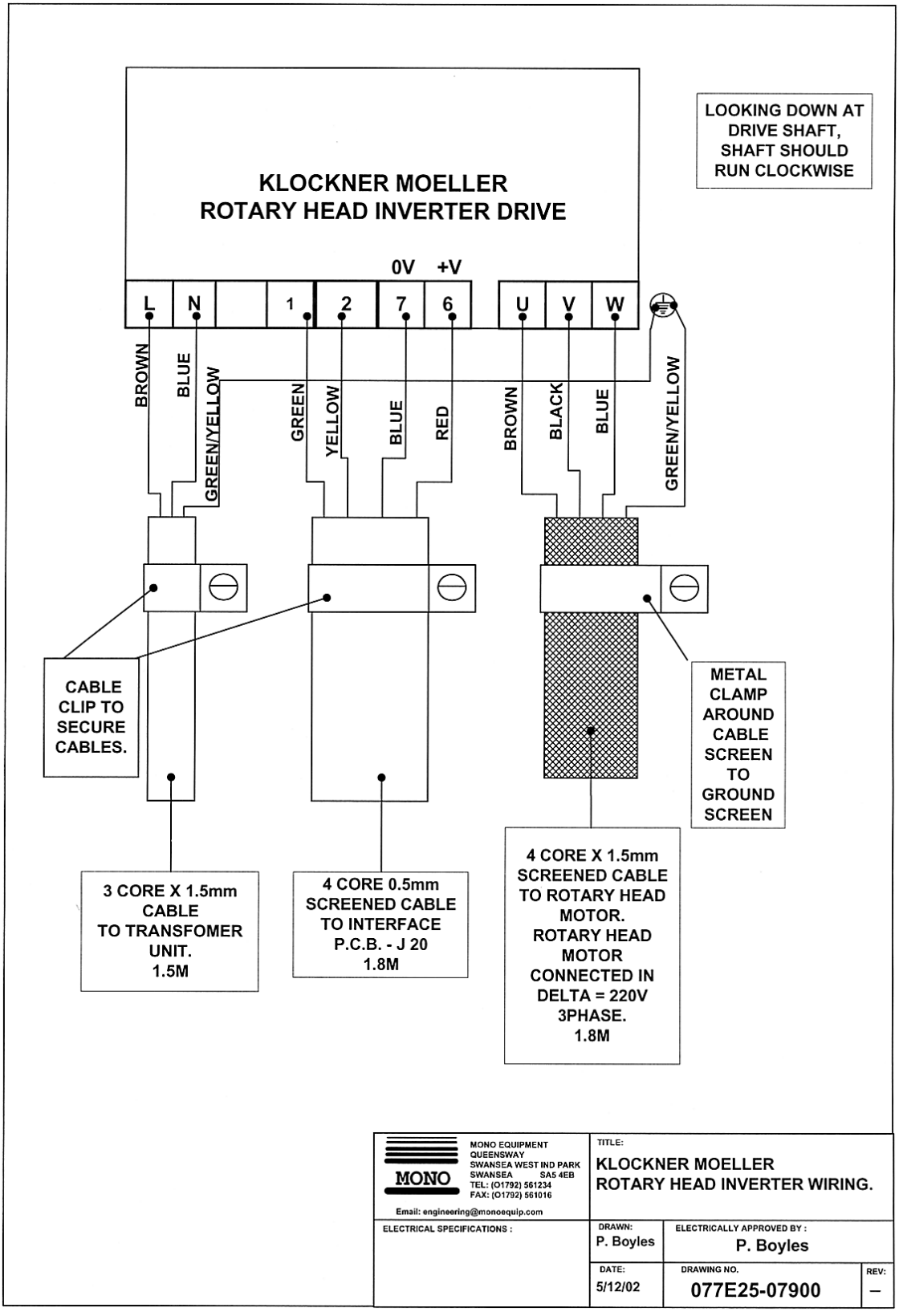
REV
SIG
DATE
REVISION
ECN NO.
MONO
SWANSEA IND EST.
FFORESTFACH,
SWANSEA.
SA5 4EB.
TEL: (01792) 561234
EXUPMENT LIMITED FAX: (01792) 561016
Email: 100432.505@compuserve.com
TITLE:
TX CONNECTIONS
ROTARY
ELECTRICAL SPECIFICATIONS:-
DRAWN:
SKB
DATE:
18/5/00
ELECTRICALLY APPROVED BY:-
P.BOYLES
DRAWING NO.
M077-25-07700
REV:
TB-1
0V
0V BLACK
110 RED
180 ORANGE
200 YELLOW
220 GREEN
230 BLUE
240 VIOLET
18V RED
0V BROWN
18V ORANGE
0V YELLOW
0V YELLOW
18V GREEN
110V BLUE
0V BLUE
72V RED
72V RED
72V RED
0V BROWN
0V BROWN
0V BROWN
PT-11
PT-9
PT-6
PT-14
PT-32
PT-5a
PT-5b
PT-5c
PT-7
PT-14
TB2
TB3-3
J1
J1-8 J1-9
INTERFACE PCB
J1 CONNECTOR
110V
FAN
72VAC
DRIVE
LINE
LOAD
PT-3
PT-31a
PT-31b
PT-5a
PT-38
TB2
PT-2
PT-37
D1
D2
PT 46
PT 47
PT 48
PT39
ROTARY
HEAD
INVERTER
U V W


KLOCKNER MOELLER
ROTARY HEAD INVERTER DRIVE
LOOKING DOWN AT DRIVE SHAFT, SHAFT SHOULD RUN CLOCKWISE
0V +V
L N 1 2 7 6 U V W
BROWN BLUE GREEN/YELLOW GREEN YELLOW BLUE RED BROWN BLACK BLUE GREEN/YELLOW
CABLE CLIP TO SECURE CABLES.
METAL CLAMP AROUND CABLE SCREEN TO GROUND SCREEN
3 CORE X 1.5mm CABLE TO TRANSFOMER UNIT. 1.5M
4 CORE 0.5mm SCREENED CABLE TO INTERFACE P.C.B. - J 20 1.8M
4 CORE X 1.5mm SCREENED CABLE TO ROTARY HEAD MOTOR. ROTARY HEAD MOTOR CONNECTED IN DELTA = 220V 3PHASE. 1.8M
MONO EQUIPMENT
QUEENSWAY
SWANSEA WEST IND PARK
SWANSEA SA5 4EB
TEL: (01792) 561234
FAX: (01792) 561016
Email: engineering@monoequip.com
MONO
TITLE:
KLOCKNER MOELLER
ROTARY HEAD INVERTER WIRING.
ELECTRICAL SPECIFICATIONS :
DRAWN: P. Boyles
ELECTRICALLY APPROVED BY : P. Boyles
DATE: 5/12/02
DRAWING NO. 077E25-07900
REV: –

SECTION "D"
ROTORY AND WIRECUT VERSION

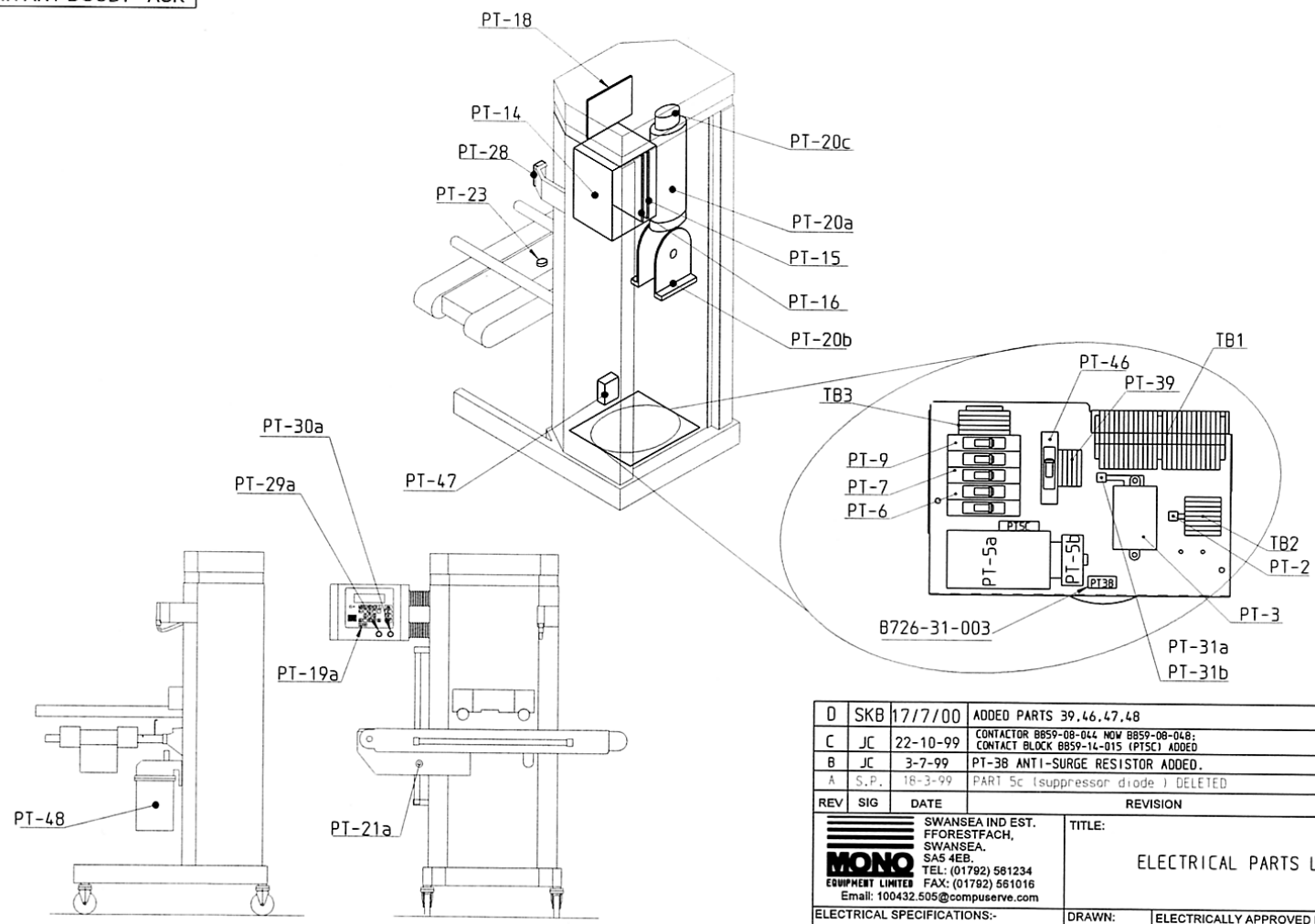
ELECTRICAL COMPONENT LAYOUT PARTS LIST

DRAWING PT-Ref	DESCRIPTION	MONO PART NUMBER
PT-1	SLEEVE	B842-48-008
PT-2	VARISTOR	B842-48-002
PT-3	FILTER UNIT	B842-48-009
PT-5a	MAIN CONTACTOR N' 1	B859-08-048
PT-5b	AUXILIARY CONTACT BLOCK	B859-14-011
PT-5c	AUXILIARY CONTACT BLOCK	B859-14-015
PT-6	DEPOSIT CONTROLLER 72 VAC SUPPLY M.C.B.	B872-22-098
PT-7	DEPOSIT CONTROLLER 18-0-18 VAC BUS SUPPLY M.C.B.	B872-22-075
PT-9	FAN POWER SUPPLY M.C.B.	B872-22-002
PT-11	TRANSFORMER	B726-31-003
PT-14	CONTROLLER UNIT ENCLOSURE & POWER SUPPLY UNIT	B739-09-002
PT-15	DEPOSIT MOTOR CONTROLLER	B739-80-002
PT-16	TRAY TRAVEL MOTOR CONTROLLER	B739-80-002
PT-18	INTERFACE P.C.B. UNIT	B728-93-009
PT-19a	COMPUTER DISPLAY UNIT	B728-93-010
PT-19b	25 WAY RIBBON LEAD	B728-63-002
PT-19c	37 WAY RIBBON LEAD	B728-63-004
PT-20a	DEPOSIT DRIVE MOTOR.	B741-74-004
PT-20b	DEPOSIT DRIVE MOTOR GEARBOX	A900-11-076
PT-20c	DEPOSIT MOTOR ENCODER	B742-99-001
PT-21a	TRAY TRAVEL DRIVE MOTOR.	B912-74-021
PT-23	TRAY SENSOR UNIT	B735-99-001
PT-27	JOG POSITION SENSOR	B842-99-001
PT-28	HOPPER SAFETY SWITCH	B818-07-010
PT-29a	STOP BUTTON	B801-12-003
PT-29b	STOP BUTTON CONTACT BLOCK	B801-14-002
PT-30a	START BUTTON	B801-12-029
PT-30b	START BUTTON CONTACT BLOCK	B801-14-004
PT31a	TRANSFORMER SUPPRESSOR CAPACITOR	B900-48-003
PT-31b	TRANSFORMER SUPPRESSOR V.D.R.	B842-48-002
PT-32	FAN MOTOR SUPPRESSOR CAPACITOR	B900-48-002
PT-33a	TRAY TRAVEL ENCODER PLUG	B900-06-004
PT-33b	TRAY TRAVEL ENCODER SOCKET	B900-25-004
PT-34a	TRAY TRAVEL MOTOR PLUG HOOD	B715-25-011
PT-34a	TRAY TRAVEL MOTOR PLUG INSERT	B715-25-006
PT-34b	TRAY TRAVEL MOTOR SOCKET MOUNTING BASE	B715-06-001
PT-34b	TRAY TRAVEL MOTOR SOCKET INSERT	B715-06-005
PT-35a	TRAY SENSOR PLUG	B900-06-003
PT-35b	TRAY SENSOR SOCKET	B900-25-003
PT-37	MAIN ROTARY ISOLATOR SWITCH	B748-03-002
PT-37	MAIN ROTARY ISOLATOR SWITCH (AMERICAN)	B748-03-003
PT-38	SURGE SUPPRESSOR RESISTOR	B842-59-014

COMPONENT LAYOUT PARTS LIST

DRAWING PT-Ref	DESCRIPTION		*MONO* PART NUMBER
PT 39	MAIN CONTACTOR N' 2		B859-08-055
PT 40	WIRECUT MOTOR FUSE ON INERFACE PCB		B842-85-026
PT 41	WIRECUT ONE TURN SENSOR		B919-99-002
PT 42	WIRECUT MOTOR UNIT		B912-74-025
PT 43	FRONT ACCESS COVER SAFETY SWITCH		B818-07-010
PT 44	REAR ACCESS COVER SAFETY SWITCH		B818-07-010
PT 45	WIRECUT TEMPLATE SENSOR		B819-99-002
PT 46	ROTARY HEAD MOTOR MCB		B872-22-064
PT 47	ROTARY HEAD INVERTER	(B807-80-001) 11/05 ONWARDS	B801-80-010
PT 48	ROTARY HEAD MOTOR		B912-74-019

IF IN ANY DOUBT - ASK



REV	SIG	DATE	REVISION	ECN NO.
D	SKB	17/7/00	ADDED PARTS 39,46,47,48	12/21
C	JC	22-10-99	CONTACTOR B859-08-044 NOW B859-08-048; CONTACT BLOCK B859-14-015 (PT5C) ADDED	10/61
B	JC	3-7-99	PT-38 ANTI-SURGE RESISTOR ADDED.	09/90
A	S.P.	18-3-99	PART 5c (suppressor diode) DELETED	09/62

SWANSEA IND EST.
FFORESTFACH,
SWANSEA.
SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 561016
Email: 100432.505@compuserve.com

TITLE: ELECTRICAL PARTS LAYOUT

ELECTRICAL SPECIFICATIONS:-

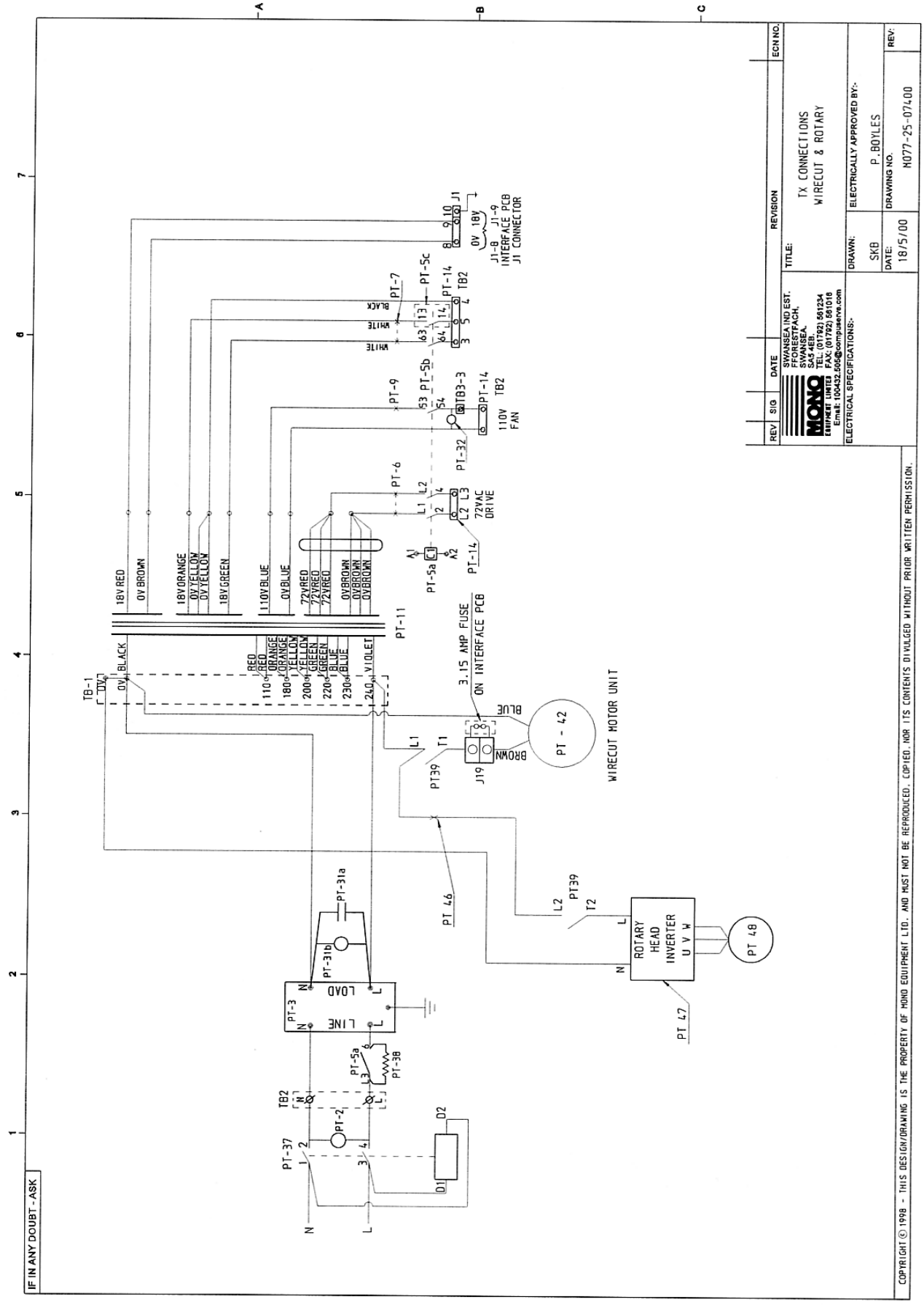
DRAWN: SKB

ELECTRICALLY APPROVED BY:-

DATE: 4/11/98

DRAWING NO. M077-25-03000

REV: D


IF IN ANY DOUBT - ASK
TX CONNECTIONS
WIRECUT & ROTARY
MONO
SWANSEA IND EST.
FFORESTFACH,
SWANSEA.
SA5 4EB.
TEL: (01792) 561234
FAX: (01792) 561018
Email: 100432.595@compuserve.com
DRAWN: SKB
DATE: 18/5/00
ELECTRICALLY APPROVED BY:- P.BOYLES
DRAWING NO. M077-25-07400
ELECTRICAL SPECIFICATIONS:-
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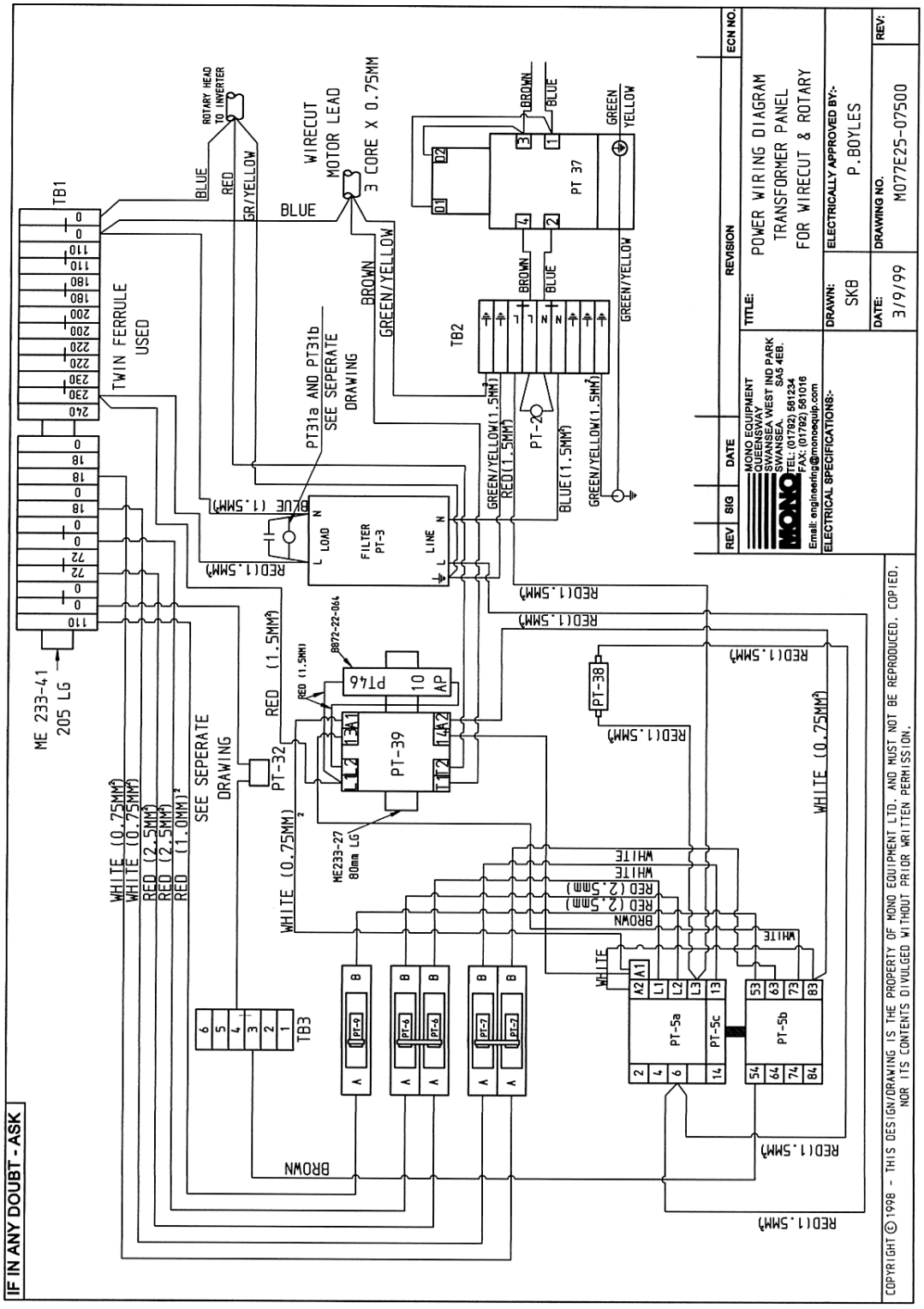
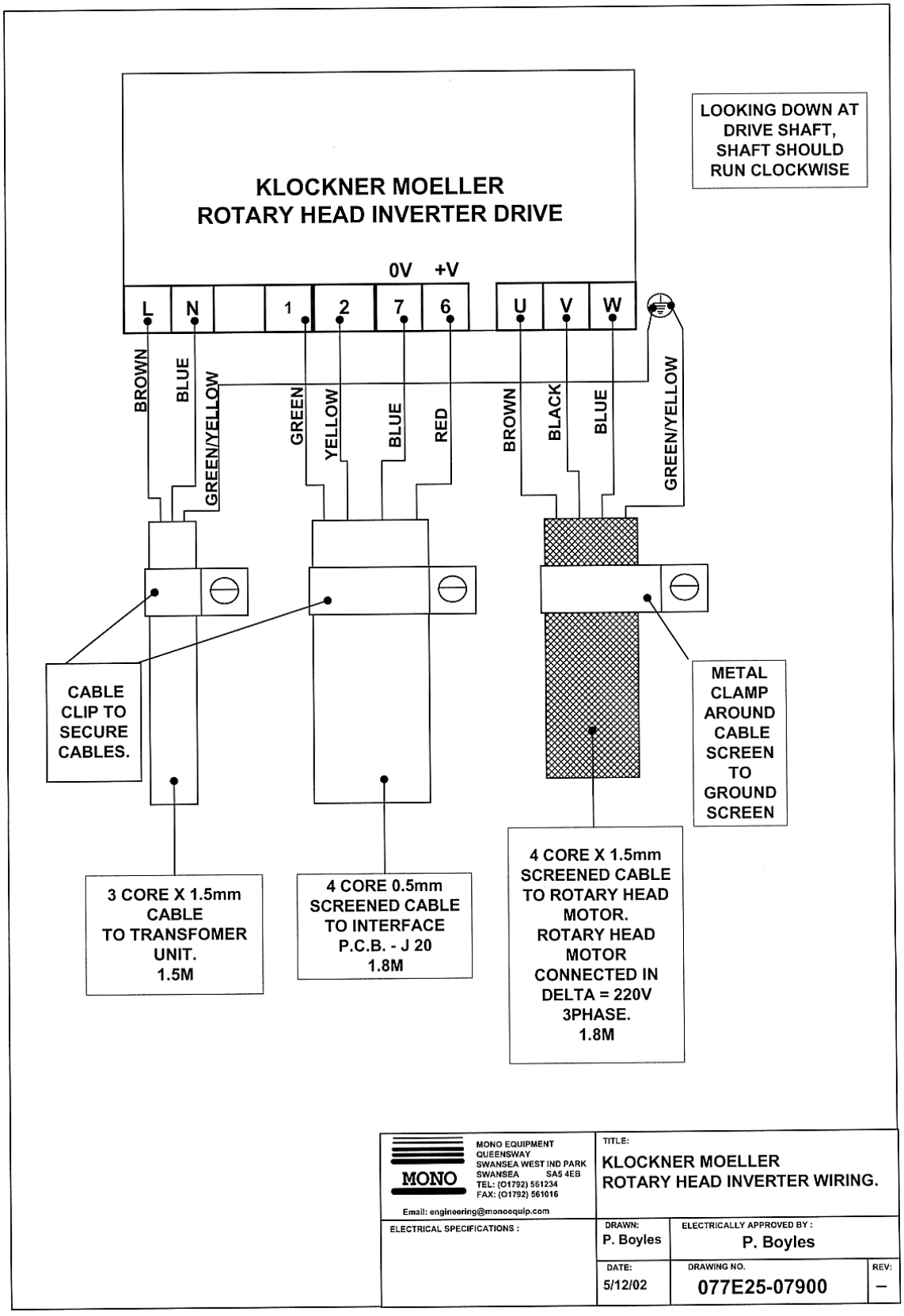
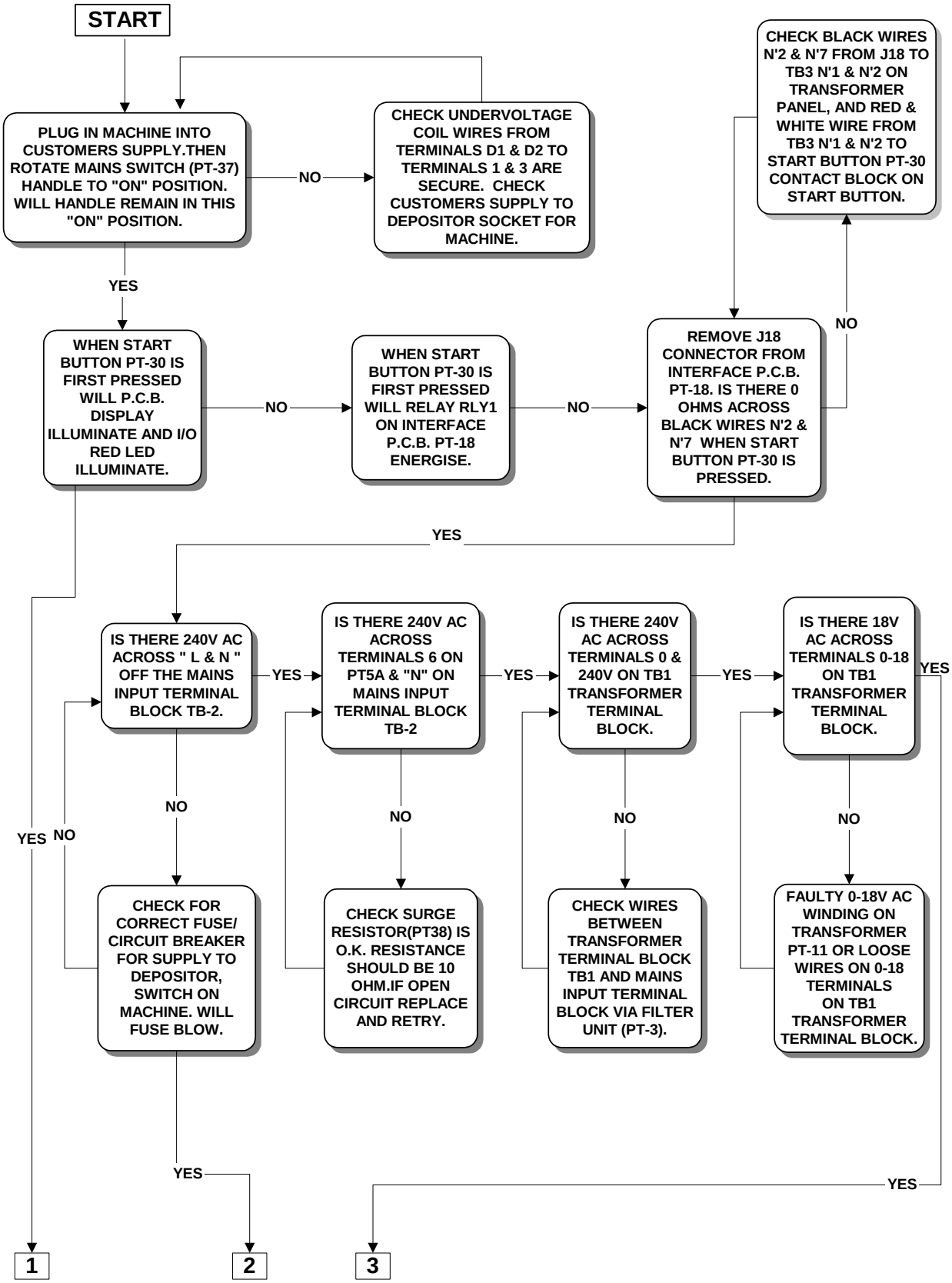
WIRECUT MOTOR UNIT
3.15 AMP FUSE ON INTERFACE PCB
ROTARY HEAD INVERTER
LOAD
LINE
110V FAN
72VAC DRIVE
J1-9 INTERFACE PCB J1 CONNECTOR


IF IN ANY DOUBT - ASK
TITLE: POWER WIRING DIAGRAM TRANSFORMER PANEL FOR WIRECUT & ROTARY
DRAWN: SKB
DATE: 3/9/99
ELECTRICALLY APPROVED BY:- P.BOYLES
DRAWING NO. M077E25-07500
REV:
ECN NO.
REVISION
DATE
SIG
REV
MONO EQUIPMENT QUEENSWAY SWANSEA WEST IND PARK SWANSEA SA5 4EB. TEL: (01792) 561234 FAX: (01792) 561036 Email: engineering@monoequip.com
ELECTRICAL SPECIFICATIONS:-
COPYRIGHT © 1998 - THIS DESIGN/DRAWING IS THE PROPERTY OF MONO EQUIPMENT LTD. AND MUST NOT BE REPRODUCED, COPIED, NOR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN PERMISSION.
ROTARY HEAD TO INVERTER
WIRECUT MOTOR LEAD 3 CORE X 0.75MM
BLUE
RED
GR/YELLOW
BROWN
GREEN/YELLOW
TB1
TWIN FERRULE USED
PT31a AND PT31b SEE SEPERATE DRAWING
TB2
PT 37
GREEN YELLOW
BLUE (1.5MM²)
RED (1.5MM²)
GREEN/YELLOW (1.5MM²)
FILTER PT-3
LOAD
LINE
PT-2
ME 233-41 205 LG
WHITE (0.75MM²)
RED (2.5MM²)
RED (1.0MM²)
SEE SEPERATE DRAWING
RED (1.5MM²)
PT-32
PT-39
PT-38
WHITE (0.75MM²)
ME233-27 80mm LG
TB3
PT-9
PT-4
PT-6
PT-7
PT-2
PT-5a
PT-5c
PT-5b
RED (2.5MM²)
RED1.5MM²


KLOCKNER MOELLER
ROTARY HEAD INVERTER DRIVE
LOOKING DOWN AT DRIVE SHAFT, SHAFT SHOULD RUN CLOCKWISE
0V +V
L N 1 2 7 6 U V W
BROWN BLUE GREEN/YELLOW
GREEN YELLOW BLUE RED
BROWN BLACK BLUE GREEN/YELLOW
CABLE CLIP TO SECURE CABLES.
METAL CLAMP AROUND CABLE SCREEN TO GROUND SCREEN
3 CORE X 1.5mm CABLE TO TRANSFOMER UNIT. 1.5M
4 CORE 0.5mm SCREENED CABLE TO INTERFACE P.C.B. - J 20 1.8M
4 CORE X 1.5mm SCREENED CABLE TO ROTARY HEAD MOTOR. ROTARY HEAD MOTOR CONNECTED IN DELTA = 220V 3PHASE. 1.8M
MONO
MONO EQUIPMENT
QUEENSWAY
SWANSEA WEST IND PARK
SWANSEA SA5 4EB
TEL: (01792) 561234
FAX: (01792) 561016
Email: engineering@monoequip.com
TITLE:
KLOCKNER MOELLER
ROTARY HEAD INVERTER WIRING.
ELECTRICAL SPECIFICATIONS :
DRAWN: P. Boyles
ELECTRICALLY APPROVED BY : P. Boyles
DATE: 5/12/02
DRAWING NO. 077E25-07900
REV: –

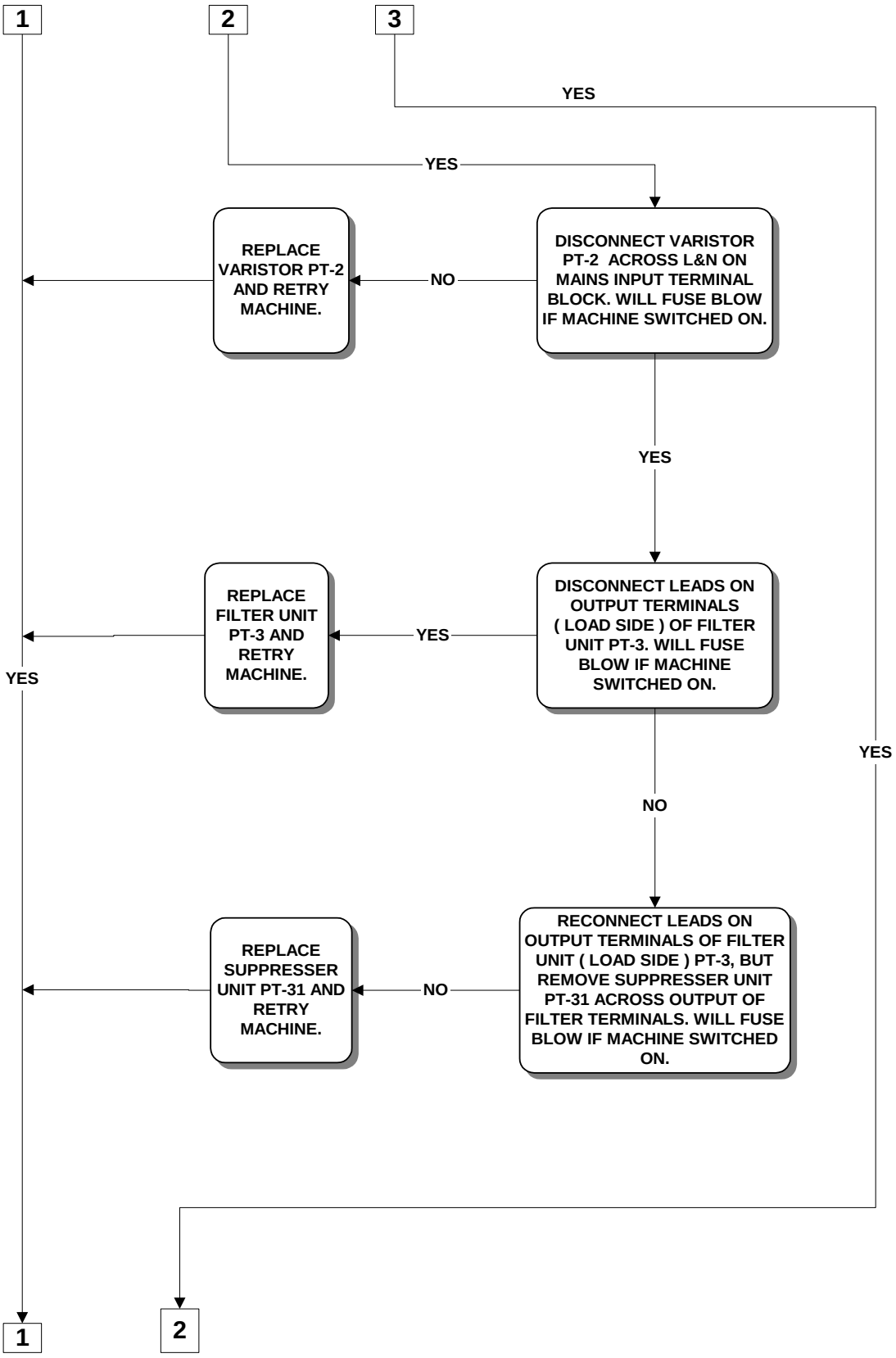
18.0 Fault Analysis Charts

ALPHA DEPOSITOR FAULT ANALYSIS FLOW CHART



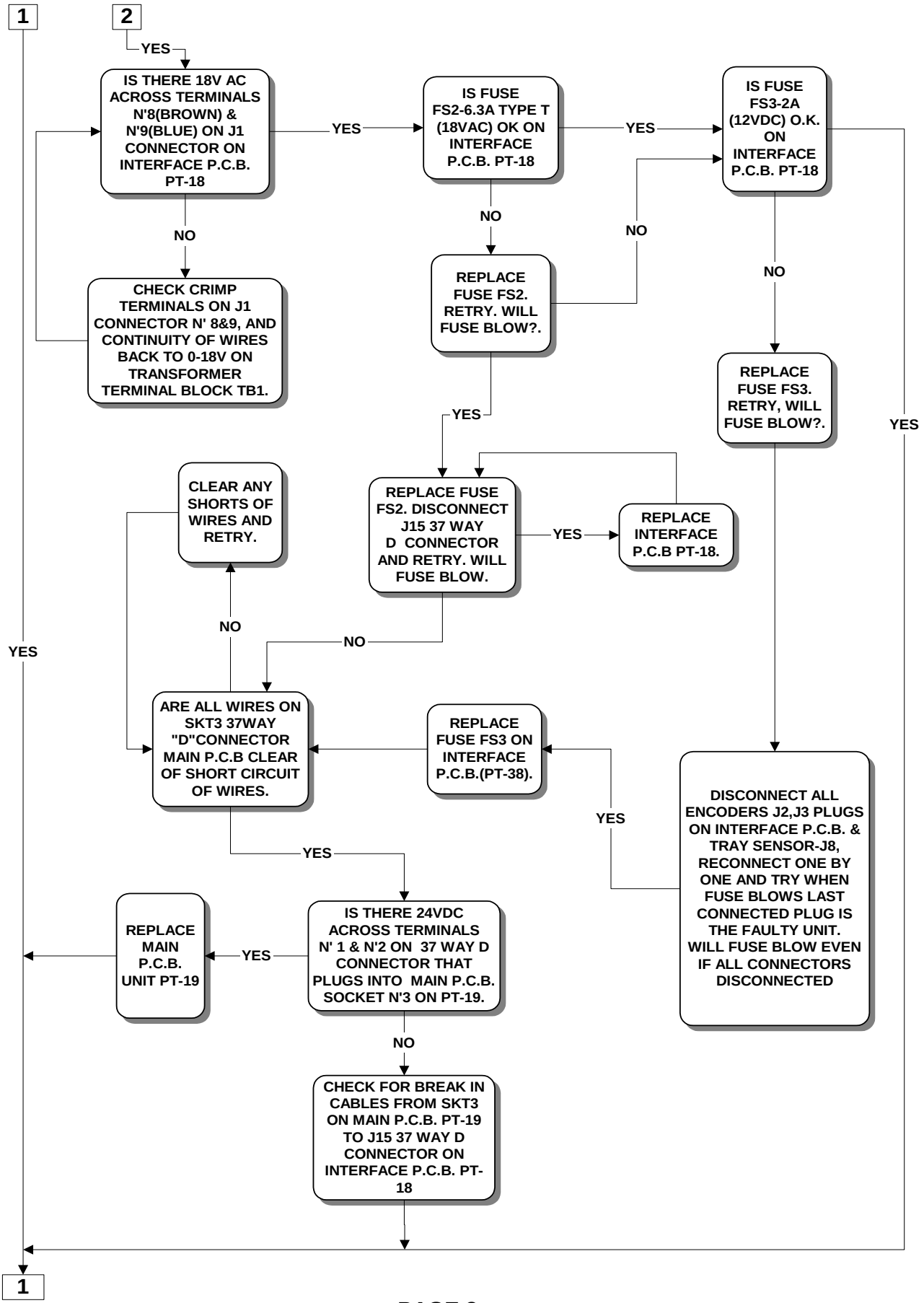
PAGE 1

ALPHA DEPOSITOR FAULT ANALYSIS FLOW CHART



PAGE 2

ALPHA DEPOSITOR FAULT ANALYSIS FLOW CHART



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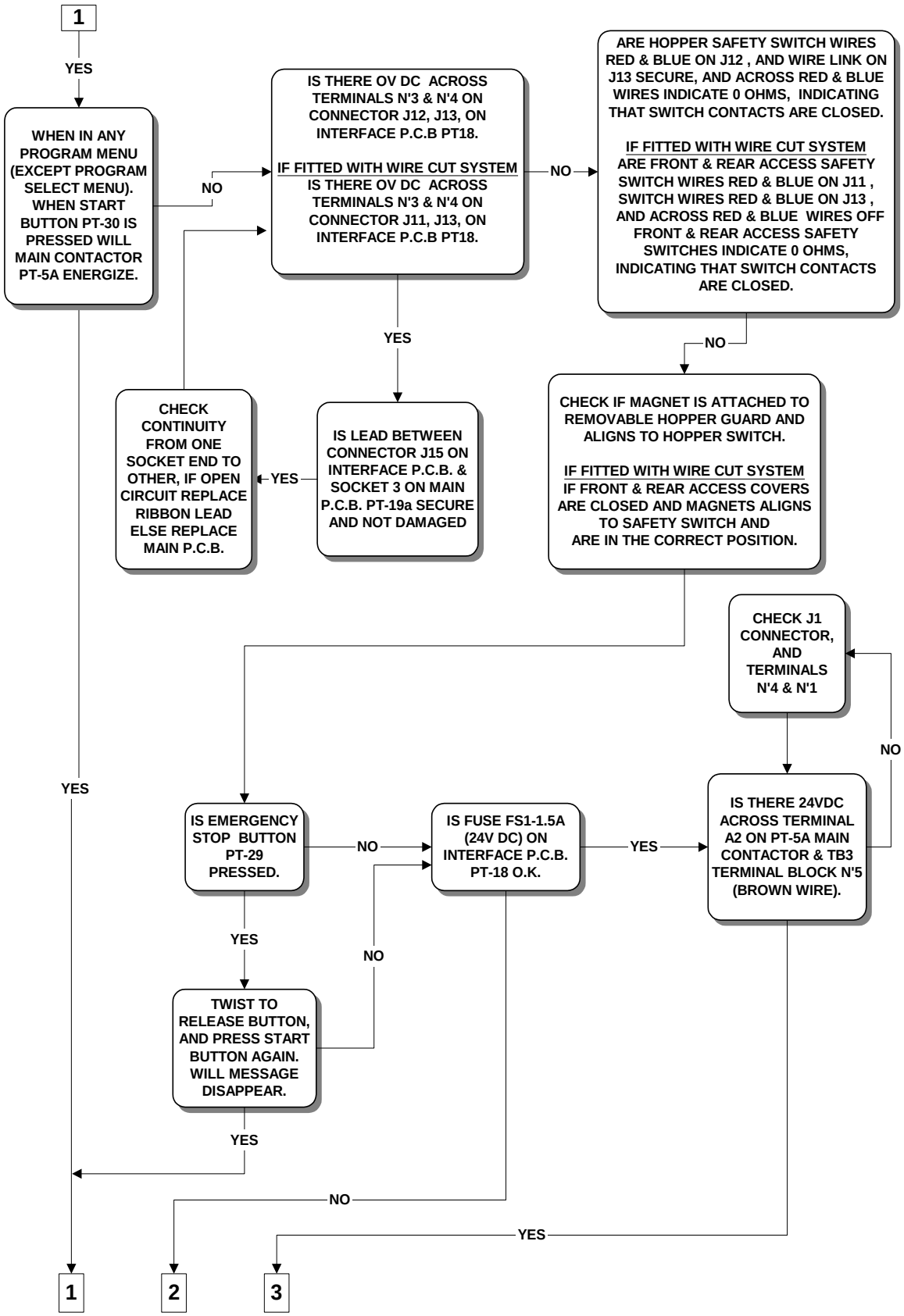
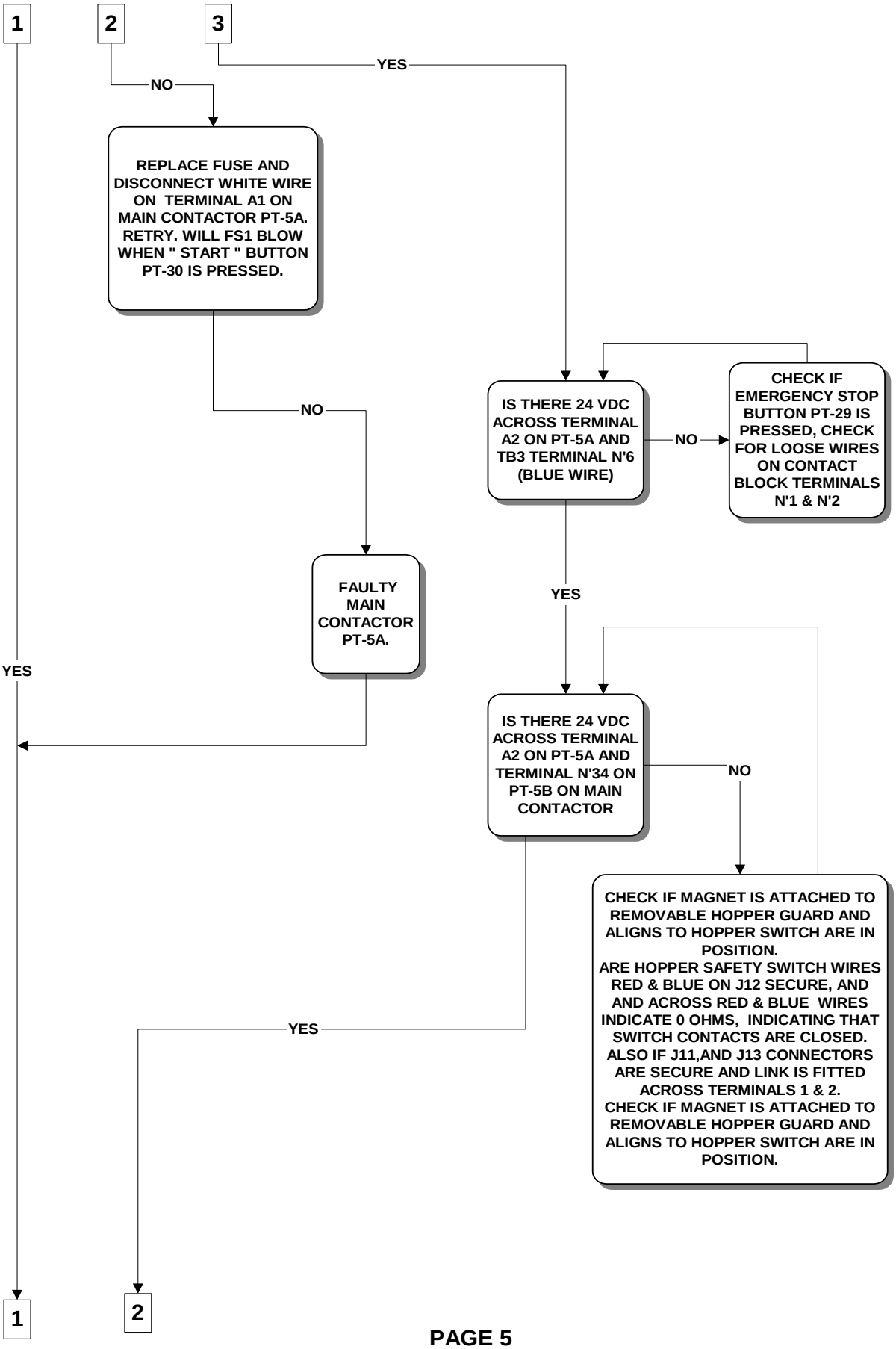


PAGE 4

ALPHA DEPOSITOR FAULT ANALYSIS FLOW CHART



PAGE 5

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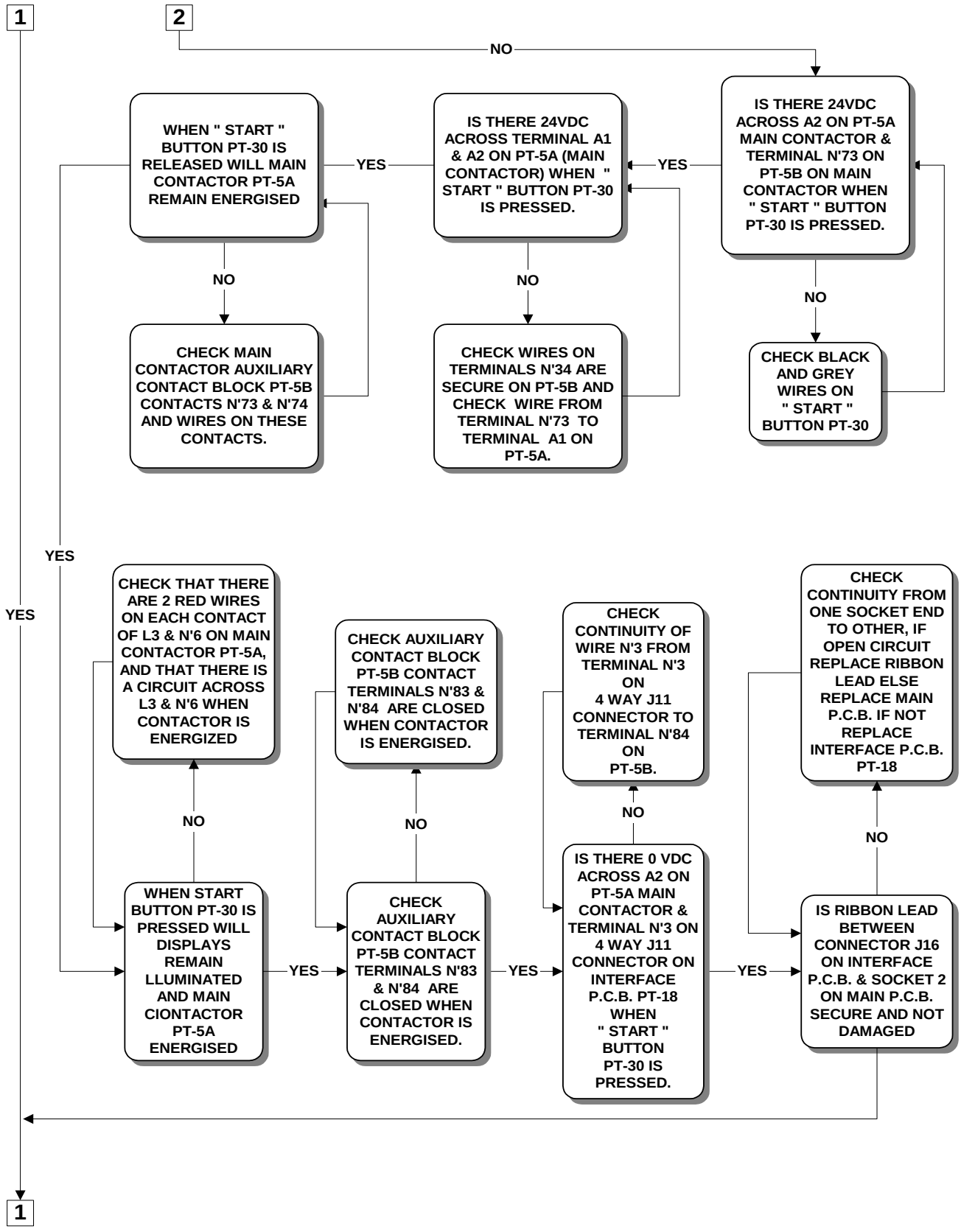
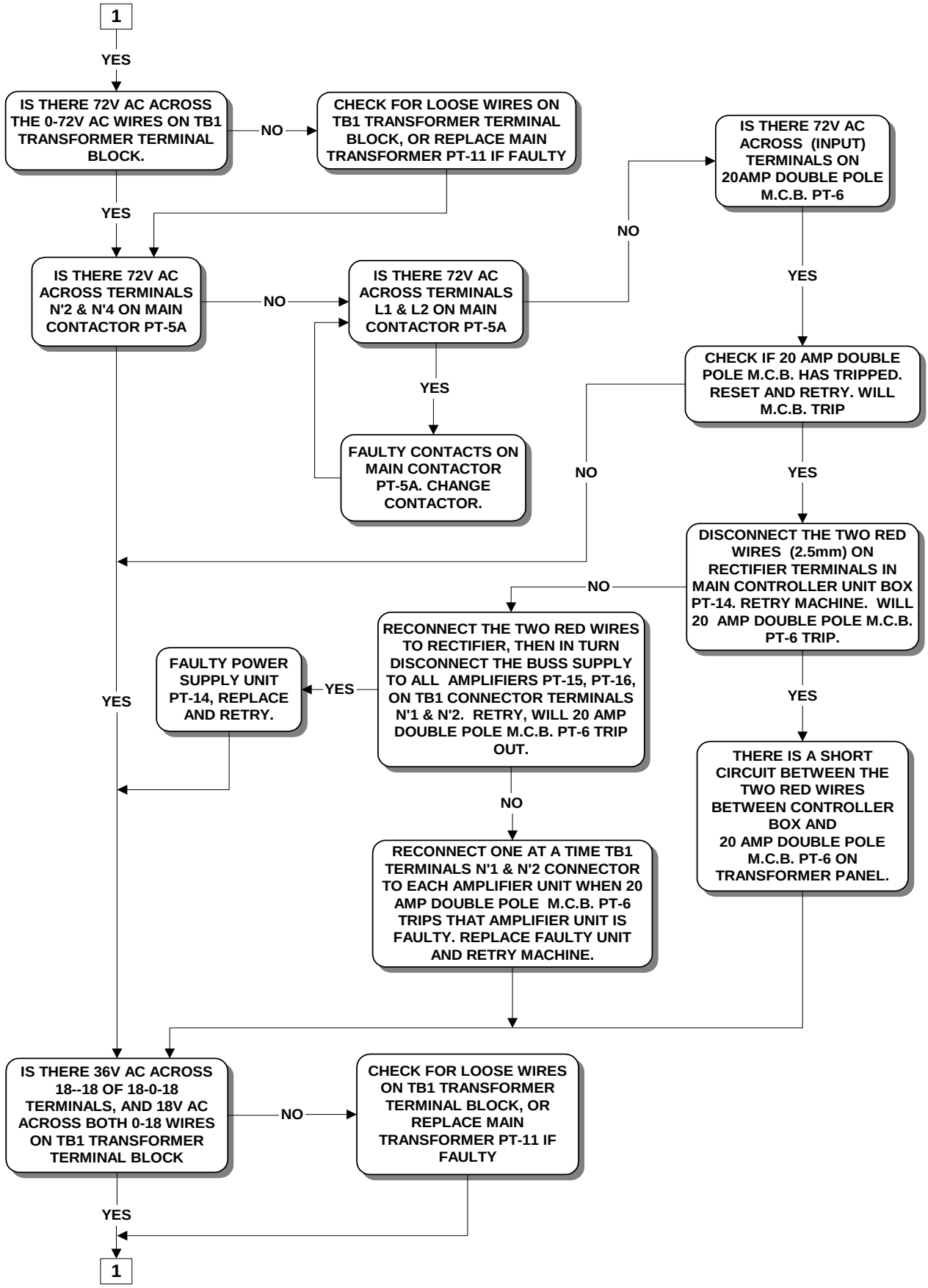


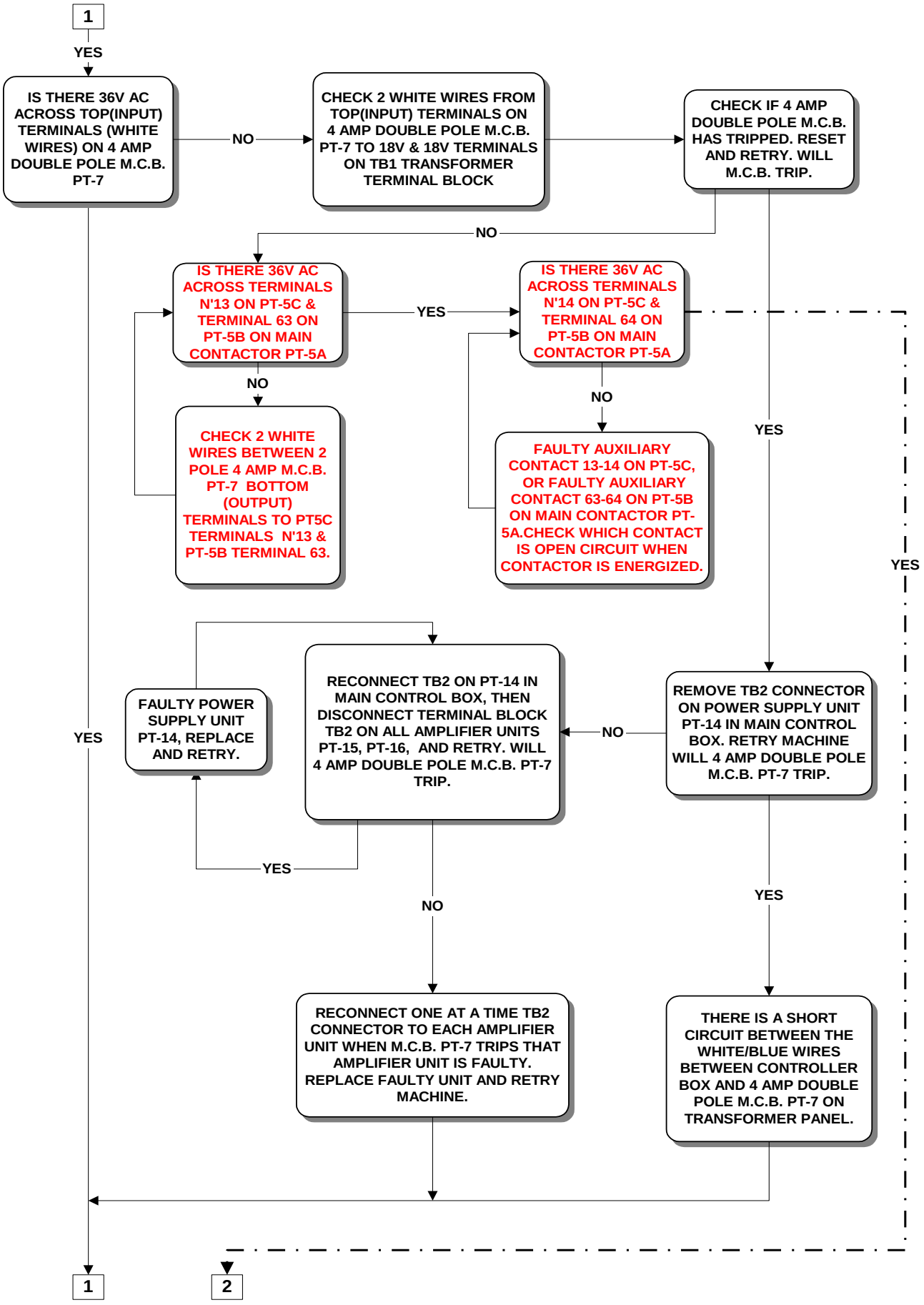
PAGE 6

ALPHA DEPOSITOR FAULT ANALYSIS FLOW CHART



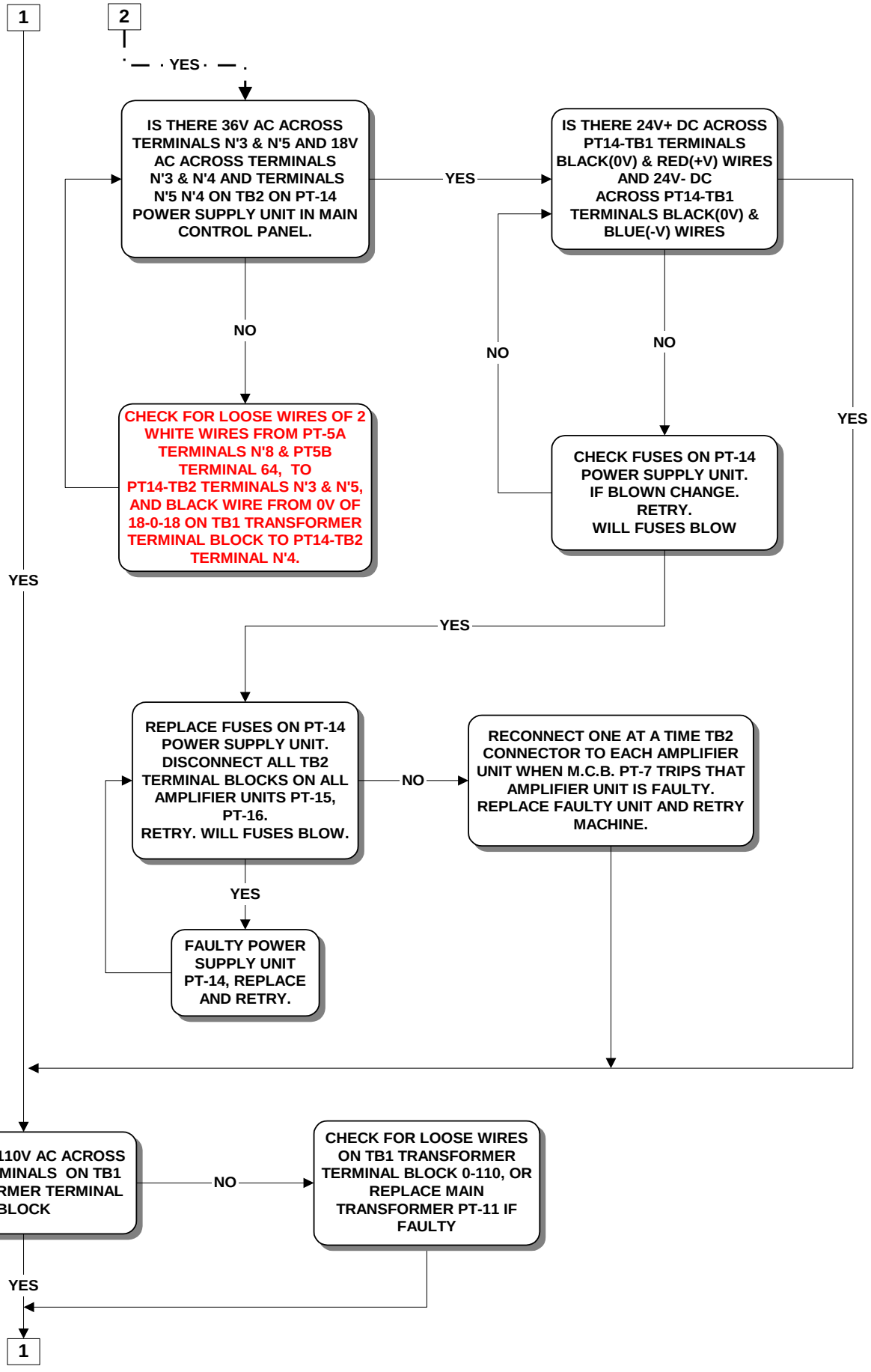
PAGE 7

ALPHA DEPOSITOR FAULT ANALYSIS FLOW CHART

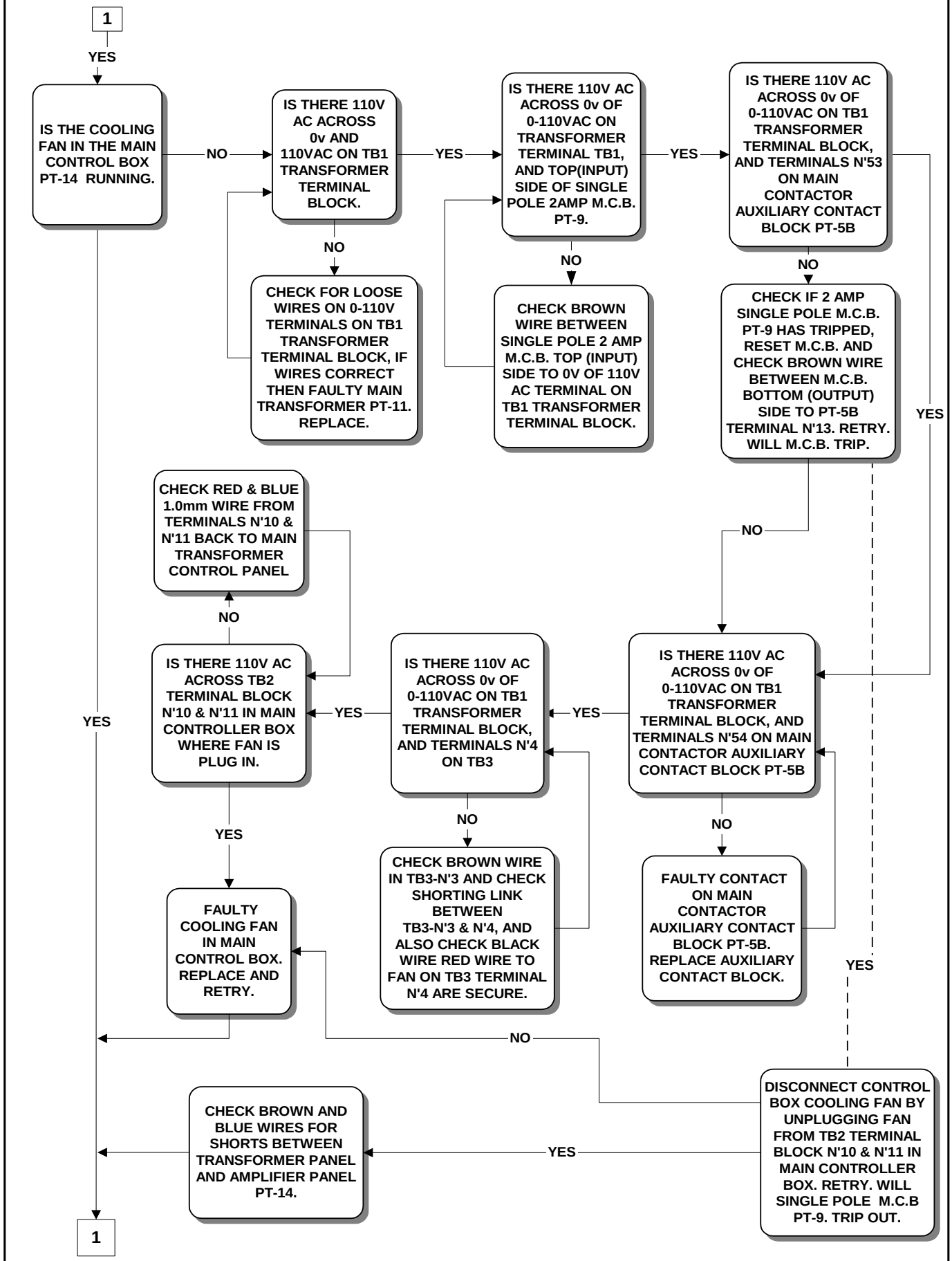


PAGE 8

ALPHA DEPOSITOR FAULT ANALYSIS FLOW CHART



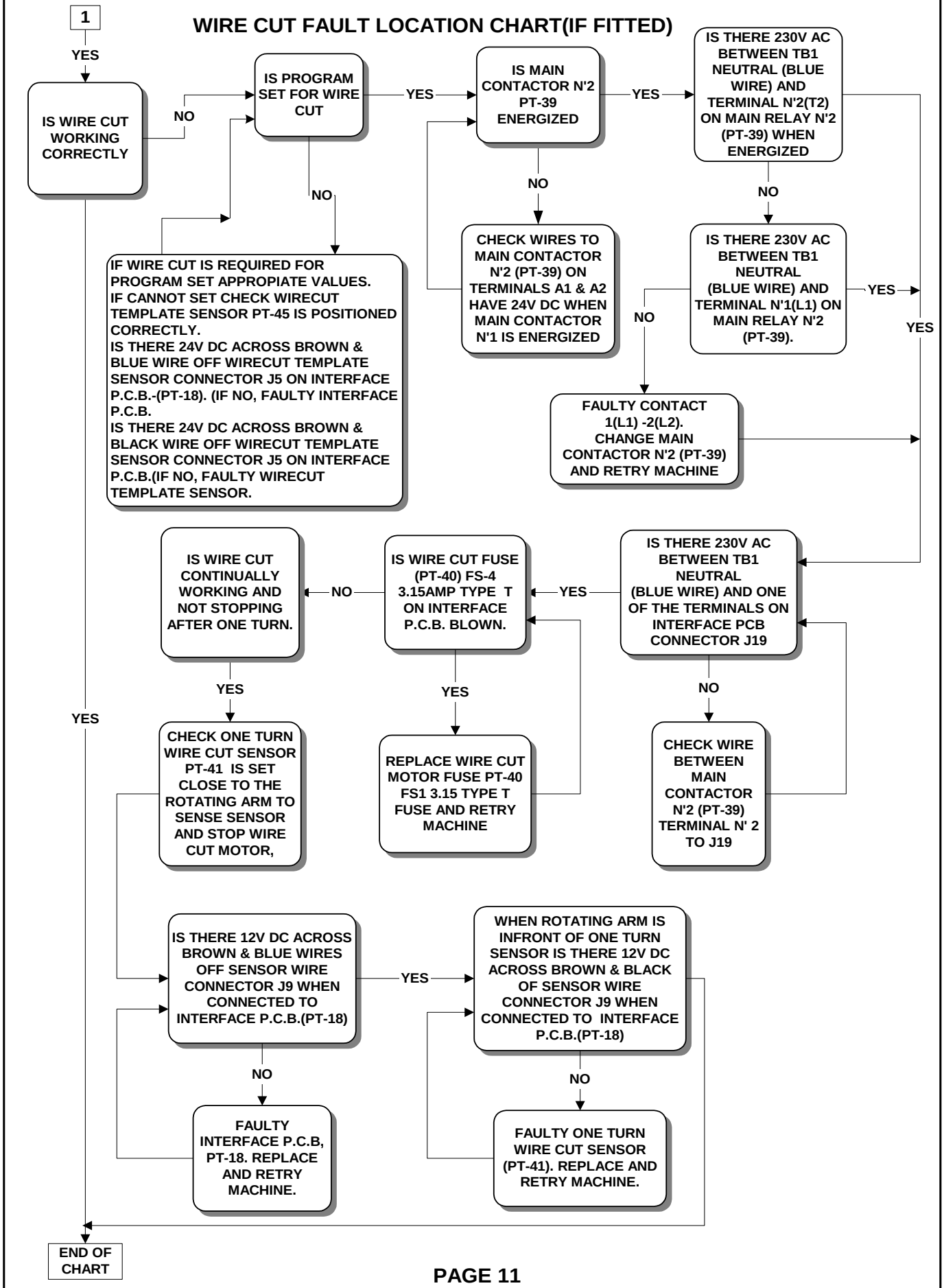
ALPHA DEPOSITOR FAULT ANALYSIS FLOW CHART



PAGE 10

ALPHA DEPOSITOR FAULT ANALYSIS FLOW CHART

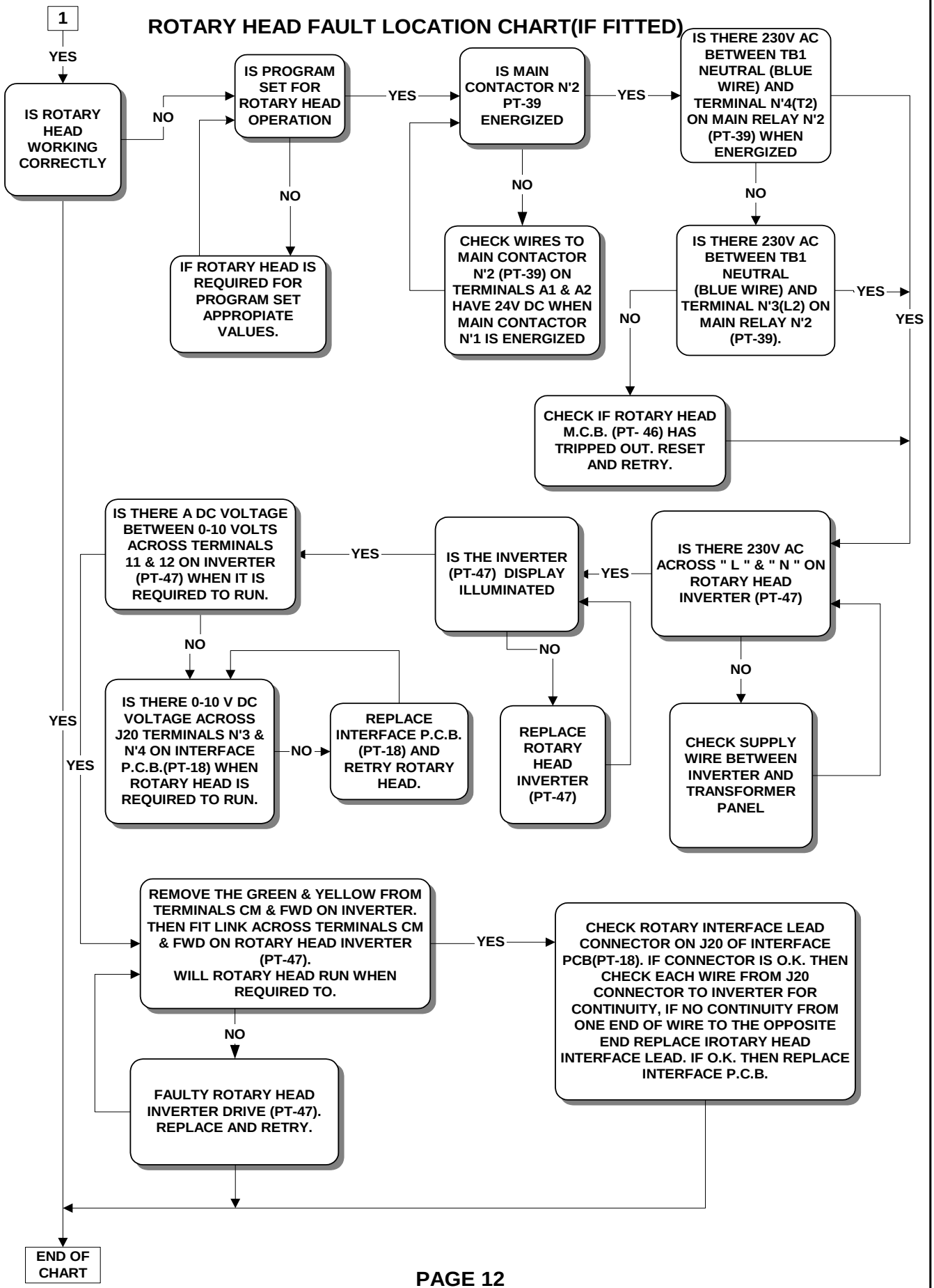
WIRE CUT FAULT LOCATION CHART(IF FITTED)



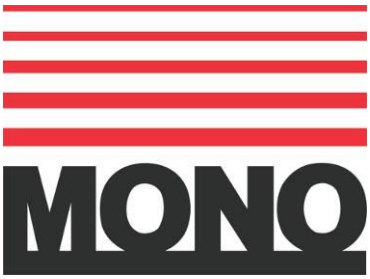
PAGE 11

ALPHA DEPOSITOR FAULT ANALYSIS FLOW CHART

ROTARY HEAD FAULT LOCATION CHART(IF FITTED)



PAGE 12



MONO Equipment.

Queensway Swansea Industrial Estate Swansea SA5 4EB UK
Tel. 01792 561234 Fax. 01792 561016

As it is our policy to improve our machines continuously, we reserve the right to change specifications without prior notice.