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Enter **Serial No.** here. _____

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



MXT ROTARY RACK OVEN
SET UP AND OPERATION INSTRUCTIONS
(With programming instructions)
ECOTOUCH CONTROL

IN PRODUCTION UP TO AUGUST 2017.
FOR THE NEW VERSION SEE MXTE (ELECTRIC) AND MXTG (GAS)

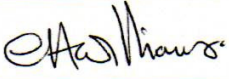
FILE 69



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 2014 / 35/ EC
- The requirements of the Electromagnetic Compatibility Directive 2004 / 108EC, 91 / 263 / EEC, 92 / 31 / EEC
Incorporating standards
EN55014-1:2006+A1:2009+A2:2011
EN55014-2:1997+A1:2001+A2:2008
- 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	
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Machine FG Code.		Machine Serial No.	
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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 9, Bryggen Road,
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Norfolk,
PE30 2HZ

SAFETY SYMBOLS

The following safety symbols are used throughout this product documentation. Before using your new equipment, read the instruction manual carefully and pay special attention to information marked with the following symbols.



WARNING

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Indicates a hazardous situation which, if not avoided, will result in electric shock.



CAUTION

Indicates a hazardous situation which, if not avoided, will result in minor or moderate injury.

ELECTRICAL SAFETY AND ADVICE REGARDING SUPPLEMENTARY ELECTRICAL PROTECTION:

Commercial bakeries, kitchens and foodservice areas are environments where electrical appliances may be located close to liquids or operate in and around damp conditions or where restricted movement for installation and service is evident.

The installation and periodic inspection of the appliance should only be undertaken by a qualified, skilled and competent electrician, and connected to the correct supply suitable for the load as stipulated by the appliance data label.

The electrical installation and connections should meet the necessary requirements of the local electrical wiring regulations and any electrical safety guidelines.

We Recommend:

- Supplementary electrical protection with the use of a residual current device (RCD)
- Fixed wiring appliances incorporate a locally situated switch disconnecter to connect to, which is easily accessible for switching off and safe isolation purposes. The switch disconnecter must meet the specification requirements of IEC 60947.



The supply to this machine must be protected by a **30mA RCD**

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



NOTE

All reference to LEFT HAND ovens means that main door is hinged on the left and the control panel is on the right.



All reference to RIGHT HAND ovens means that main door is hinged on the right and the control panel is on the left.

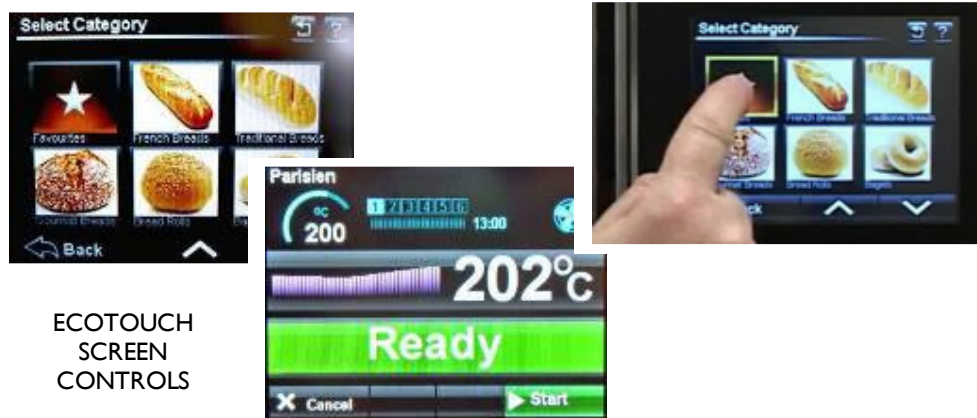


1.0 INTRODUCTION



The **MONO MXT** rotary rack oven is a compact, electrically fired oven with a computerized touch control panel. The oven is designed to accommodate a single rotating rack of up to eighteen trays capacity.

Ecotouch ovens are supplied with **TOUCH** displays for the user-friendly control panels. This can show pictures of product types or program numbers that have been set by the user. When not being used, the screen can show your company logo. A voice prompt facility is also available for the basic instructions like “Bake over”.



ECOTOUCH
SCREEN
CONTROLS

The oven is of stainless steel construction, with easily cleaned interior and exterior surfaces and smart appearance.

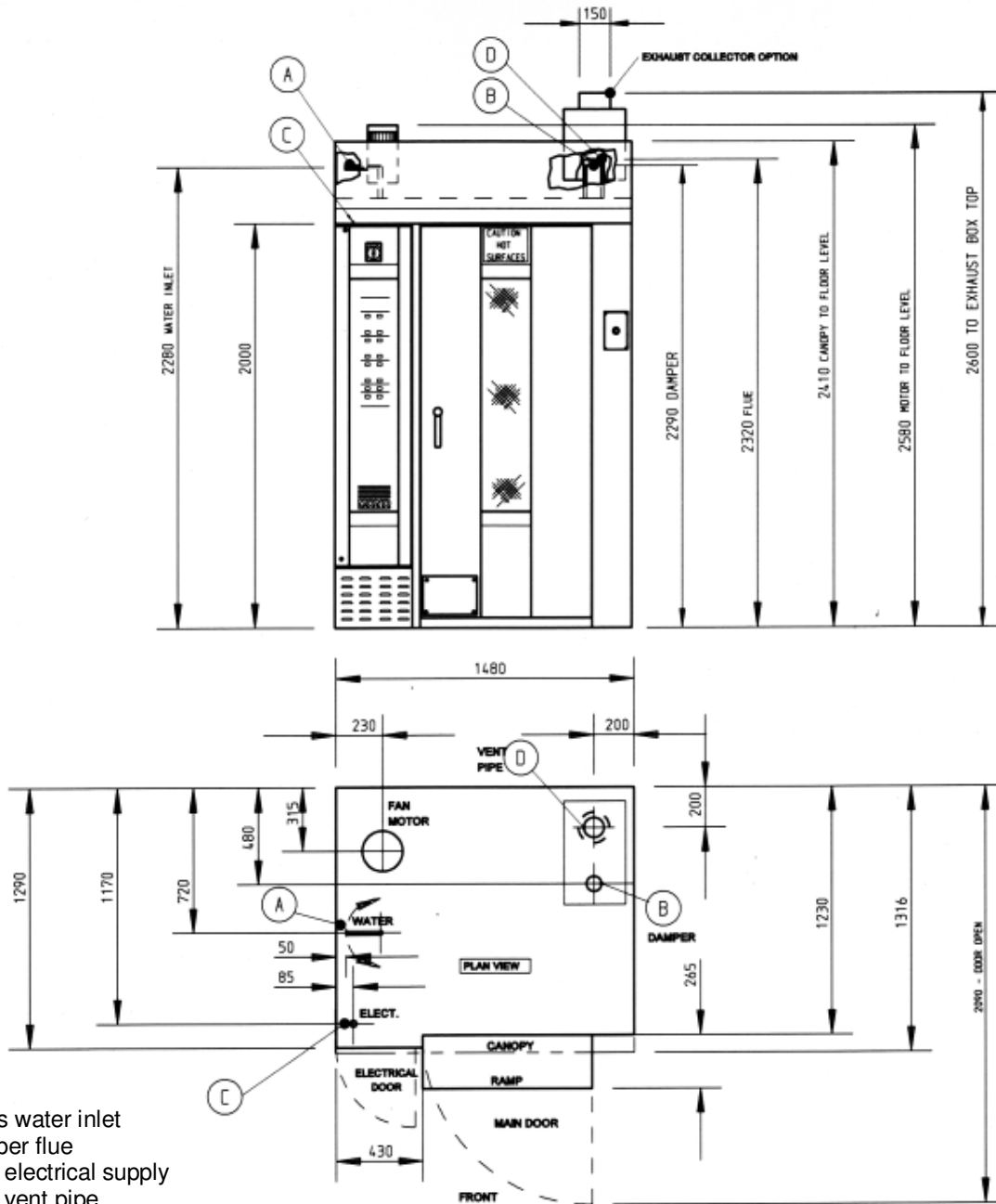
The fan and rack rotator have generously rated, totally enclosed, motors and a sealed for life gearbox.

The high-speed fan and 45 kW element array (36kW on low power version) give good, efficient air circulation via a diagonal cross-flow system.

Steam is generated within the oven chamber by means of a multi-point, water injection cascade.

Programmed damper control is provided as part of the programming controls.

2.0 OVERALL DIMENSIONS



- A Mains water inlet
- B Damper flue
- C Main electrical supply
- D Main vent pipe

(No drainage required)

Minimum door entry required:- 2000mm (78") high x 760mm (30") wide
 Minimum operational ceiling height:- 3000mm (118")

Total floor area:- 1.85 sq. Mtrs

3.0 SPECIFICATIONS

OVERALL WIDTH:	1480mm (58 1/4")
OVERALL DEPTH:	1290mm (50 3/4")
OVERALL HEIGHT:	2580mm (101 1/2")
INSIDE CLEAR DIAMETER:	1000mm nominal (39 3/8")
HEIGHT: INSIDE	1920mm (75 1/2")
VOLUME:	1.5 cu. M
FOOTPRINT WIDTH:	1480mm (58 1/4")
FOOTPRINT DEPTH:	1290mm (50 3/4")
FOOTPRINT AREA:	1.85 sq. m
TOTAL POWER:	50kW (41kW on low power version available)
ELECTRICAL SUPPLY:	415V. 3pH. 50Hz. ,70amps per phase



The supply to this machine must be protected by a **30mA RCD**

HEATING ELEMENTS:	Finned hairpin type
HEATING ELEMENTS LOADING:	3kW. each
HEATING ELEMENTS NUMBER:	15 (12 on low power version available)
FAN MOTOR:	3kW. Totally enclosed fan cooled Squirrel cage. Class F 2860 rpm
FAN:	200mm dia x 82mm (8" dia x 3 1/4")
FAN SPEED:	2860 rpm
FAN DRIVE:	Direct Coupled
RACK DRIVE MOTOR:	.37 kW. Geared Motor Unit with Squirrel cage, enclosed fan cooled, class F motor: and sealed-for-life spur/worm reduction unit. Output speed, 6rpm:
TURNTABLE:	Single row ball bearing 410mm (16")
RACK SIZE:	30" x 18" (760mm x 460mm) tray size
RACK CARRIER:	'MONO' system 4 roller. Top hung.
STEAMER SYSTEM:	High mass 2-point water injection and solenoid operated supply:

WATER PRESSURE

MAXIMUM: 4.0bar (60 psi)
MINIMUM: 2.0bar (30 psi)
WATER FLOW 6 litres/minute (at minimum pressure)

WEIGHT Approx. 1100kg (2420lbs)

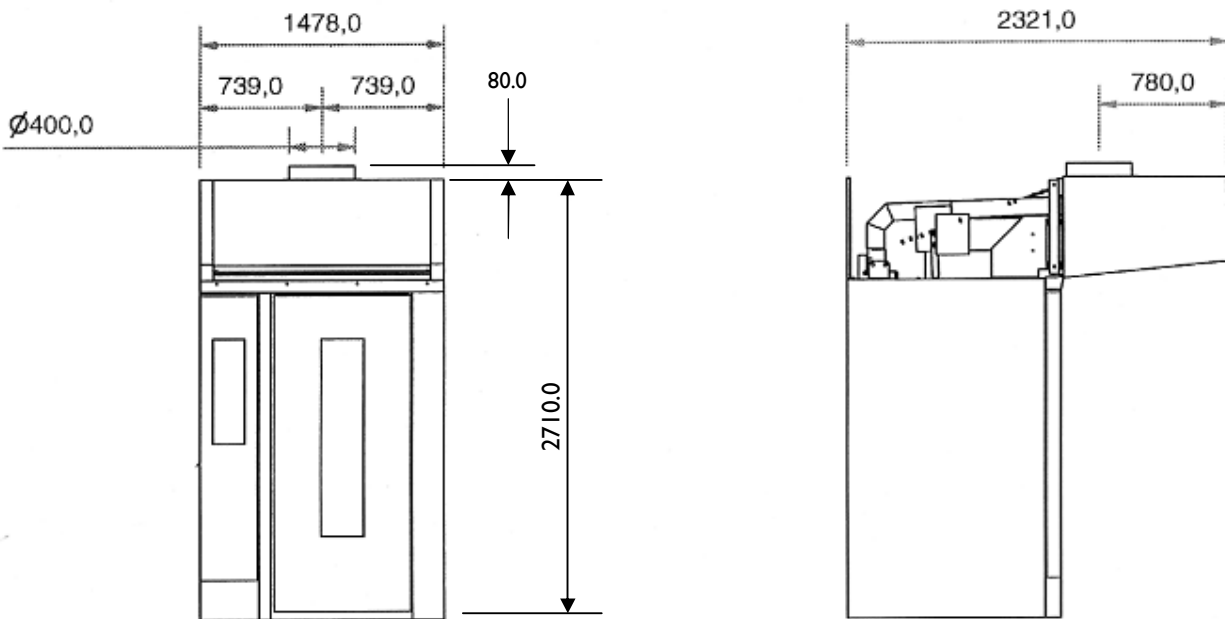
DAMPER Solenoid operated trapdoor type. Semi-automatic.

ELECTRICAL SYSTEM: Membrane operated dedicated.

CONTROL PANEL: Microprocessor integrated system, with umbilical to main electrical panel

ELECTRICAL PANEL: 415V 3pH 50Hz mains, 24V DC auxiliaries.

NOISE LEVEL: Less than 85 dB.



**OPTIONAL EXTRACTION CANOPY DIMENSIONS
(CANOPY PT.No.M164-00-01400)**

Extraction rate of 1000 cu ft./min is easily sufficient to extract the air from the canopy whilst the oven is in use. Customers are responsible for make-up air.

4.0 SAFETY

In the interests of safety and efficient operation of this oven, it is essential that this manual **should be made available to all personnel** who may be required to operate the oven, **before** work is commenced.

The following points should be closely observed and rigorously pursued at all times.

1 This oven is designed for baking bread, confectionery and savoury bakery products. Do not use the oven for baking other items without consulting the manufacturers.

2 All repairs and maintenance of electrical units should only be carried out by authorised electricians.



3 Electrical panels and electrical distributor boxes should not be opened until the main supply to the oven has been turned off.

4 When choosing and installing a flue, the precautions and instructions in this manual must be observed.

5 All connections to this oven must be made in accordance with the statutory and technical regulations of the country in which the oven is installed.

6 When work is being carried out inside the oven, the electrical mains isolator must be turned off and locked.



7 Whenever there is someone working inside the oven, the baking compartment door should be wedged open and a suitable warning notice hung on the door to prevent it being accidentally closed.



8 While the oven is in operation, and for some time after having been in operation, it is dangerous to touch the window glass or the metal surfaces in its vicinity.

9 The oven should be operated and maintained as described in this manual.

10 Use only **MONO** spare parts for this oven.

11 The construction of the oven must not be changed.

12 The owner of the oven is **legally obliged to instruct staff** using the oven in its operation and in these safety regulations. The instruction manual for the oven must not be removed from the oven work area.

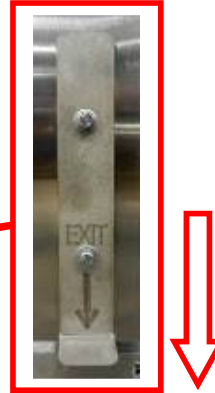


WARNING: KEEP CLEAR OF LARGE FLUE PIPE ON ROOF OF OVEN WHEN DOING ANY MAINTENANCE ON TOP. VERY HOT AIR IS EJECTED.

EMERGENCY INTERNAL-DOOR RELEASE PEDAL



THE MAIN DOOR CAN BE OPENED FROM INSIDE BY PUSHING DOWN ON THE PEDAL LOCATED ON THE LOWER RIGHT HAND SIDE OF THE DOOR



5.0 INSTALLATION

- 1 The **MONO MXT** oven is designed to operate as a freestanding unit, and must not be bolted down or fixed to the floor in any way. It can be installed flush against walls on two sides as access is only required at the top and one side.
- 2 The concrete floor beneath the oven must be smooth, flat and clear of any obstructions, and must be at least 150mm (6") thick.
- 3 The foundation must be flush with the overall bakery floor because racks are wheeled up a ramp (supplied with the oven) into the baking chamber.
- 4 A minimum headroom clearance of 3 metres (180") between the floor and the bakery ceiling must be maintained at all times.
- 5 Connect to a suitable water supply, making sure that the pipes are flushed out to remove all foreign bodies i.e. flux or solder.

NOTE : Customers in hard water areas must ensure that an efficient water treatment device protects the supply to the oven. It is the customers' responsibility to install and maintain an adequate water supply to the oven, which should comply with local water regulations.

MECHANICAL and ELECTRICAL SERVICES		
DESCRIPTION	SPECIFICATION	REMARKS
A Mains water inlet (steam solenoid)	Flexible hose to clients 15mm s/cock 3/4" B.S.P. Female	Connection by client. Water pressure:-Min 2 BAR (30PSI) Max 4 BAR (60PSI)
B Damper flue	3" Pipe. Duty:-165 CFM at 210 ^o C(410 ^o F)	Discharge to atmosphere via an independently supported 3" flue pipe terminating with an air break collector cone or discharge directly into clients extract canopy.
C Main electrical supply	45KW - 80 AMP (see note 2 below)	Three phase and neutral isolator 80 AMP FUSE and supply to oven by client
D Main vent pipe	4" O.D Pipe (10swg wall thickness)	Leave open to atmosphere or discharge into suitable extract canopy, if provided by client. <u>DO NOT CLOSE COUPLE TO OUTLET.</u>
Drainage outlet		None required



The supply to this machine must be protected by a **30mA RCD**

2. Electrical Supply (BY CLIENT)

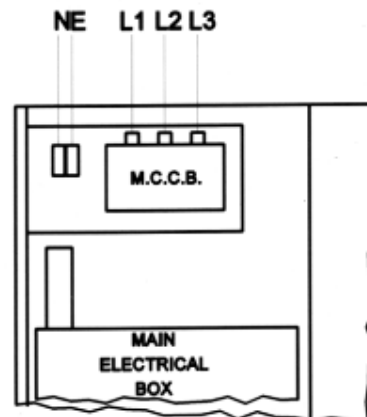
Typical cables for UK are:-

4 off 25mm² - Coloured

1 off 25mm² - Earth

} In flexible conduit

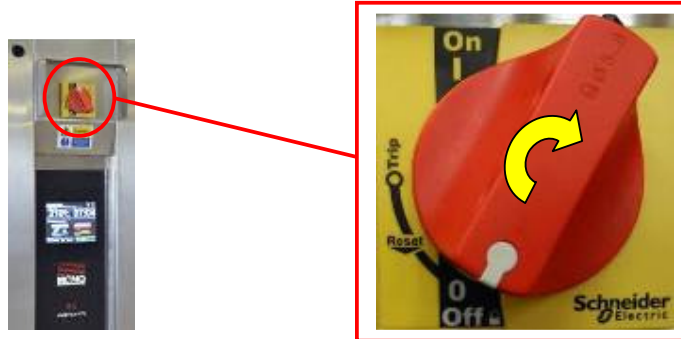
MAINS CONNECTIONS (RIGHT HAND OVEN SHOWN)



6.0 ISOLATION



In case of an emergency, switch oven off at mains isolator switch.



NOTE: IF WORKING ON ELECTRICAL BOX AND PANEL, ensure oven is DISCONNECTED from CONSUMER POWER SUPPLY. NOT ONLY OVEN ISOLATOR ABOVE, AS SOME PARTS STAY LIVE AFTER ISOLATOR SWITCH IS OPERATED



7.0 DAILY CLEANING INSTRUCTIONS

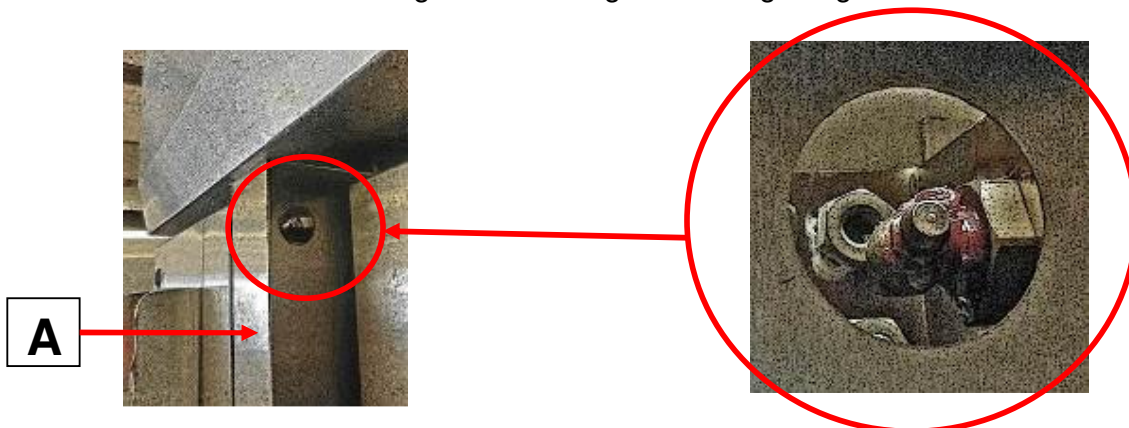
The oven has been designed with sealed components, which are used wherever possible. The minimum of routine cleaning is required, but it is essential that it be properly and regularly carried out.

Clean up spillages of product on the oven floor. Wipe off splashes on door window.

Note: build up of spillages may result, because of incorrect rack rotation. Check for damage to door seals, particularly if operators are careless with rack handling.

8.0 WEEKLY MAINTENANCE INSTRUCTIONS

- Grease rack drive bearings. The remote point for greasing is located in the door post (A). Two shots per week are required. Note, over greasing may cause over heating in the bearing and leakage of grease.



9.0 GENERAL MAINTENANCE

Check for frayed or bare cables.
The oven should not be used if any are found.

Follow cleaning and greasing instructions in sections 7.0 and 8.0

Check condition of main door seals and replace if required.

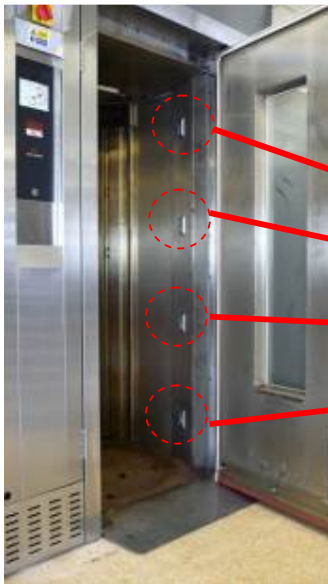
Check all lights are in working order.
If not, replace as shown in the next section.

TO REPLACE LIGHTING BULBS

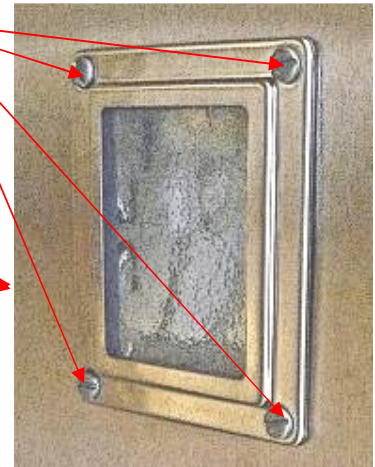
In the event of a bulb failure, Instructions on how to change a bulb are as follows: -



- Ensure oven is isolated from mains supply and allow to cool.
- Remove screws (4 per light) and take glass, frame and gasket off lamp unit.



SCREWS



DO NOT TOUCH BULBS WITH BARE HANDS.

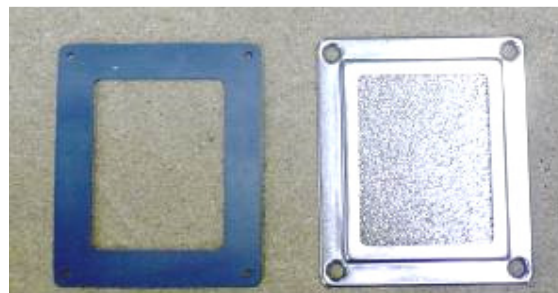
USE A CLOTH OR GLOVES TO STOP ANY MARKS THAT WILL CAUSE HOT SPOTS AND PREMATURE BULB FAILURE.

- Remove bulb by pulling in direction of arrow and replace with new bulb.



LIGHT FITTING

Pt. No.B721-67-011



GASKET

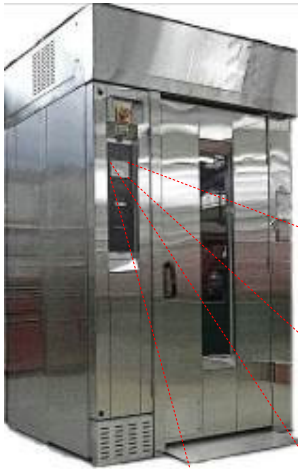
Pt. No.B721-67-008

GLASS AND FRAME

Pt. No.B721-67-010

Pt. No.B721-67-009

- Refit glass front, take care that gasket is in position around stainless steel frame.
- Re-connect oven and test.



Section 10

TOUCH SCREEN OPERATING INSTRUCTIONS

BASIC OPERATION

ALL OPERATIONS ARE ACTIVATED BY TOUCHING AREAS ON THE SCREEN, WHICH WILL PASS YOU ON TO THE NEXT INFORMATION PANEL.

DO NOT USE EXCESSIVE FORCE.
(THE PRESSURE REQUIRED TO OPERATE THE PANEL CAN BE ALTERED IN THE SETTINGS SECTION)

TOUCH THE SCREEN
ON THE AREA YOU
REQUIRE TO
ACTIVATE



STANDBY
THE OVEN TURNS OFF.
TOUCH THE SCREEN TO GO TO
THE OPTION SCREEN.



SLEEP
THE OVEN STAYS AT 100c AND
HEATS TO LAST PROGRAM
TEMPERATURE WHEN THE
SCREEN IS TOUCHED.
OPTION SCREEN THEN SHOWS.

10 -1 BAKING USING FAVOURITES MENU

TOUCH TO OPEN THE FAVOURITES SELECT SCREEN

1



OPTION SCREEN

TOUCH THE NAME OF THE PRODUCT REQUIRED

2



SELECT SCREEN

TOUCH THE "FULL LOAD" OR "HALF LOAD" AS REQUIRED

3



LOAD SCREEN

TO RETURN TO THE PREVIOUS SCREEN TOUCH THE "BACK" BUTTON AT ANY TIME

IF THE OVEN IS NOT UP TO TEMPERATURE IT WILL SHOW THE HEATING SCREEN.

WAIT FOR THE OVEN TO REACH TEMPERATURE

IF THE OVEN IS TOO HOT FOR THE TEMPERATURE CHOSEN, THE SCREEN WILL TELL YOU TO OPEN THE DOOR TO AID COOLING.



HEATING SCREEN



READY SCREEN

WHEN OVEN IS AT THE CORRECT TEMPERATURE THE "READY" SCREEN WILL SHOW.

1. OPEN DOOR AND LOAD PRODUCT.
2. CLOSE THE DOOR FULLY.
3. TOUCH "START"

TIP

TO HELP TO KEEP THE OVEN HOT, TRY NOT TO KEEP THE DOOR OPEN MORE THAN NEEDED

4

BAKE IN PROGRESS SCREEN

THIS SCREEN WILL SHOW WHILE THE PRODUCT IS BAKING

SET TEMPERATURE

TEMPERATURE PROFILE BAR

BAKE TIME PROGRESS BAR

NOTE

The actual temperature shown will rise and fall above and below the set temperature as the oven cools and reheats. This is not a fault

BAKE PHASE (WHEN USED)

ACTUAL OVEN TEMPERATURE



BAKE TIME LEFT

BAKE OVER SCREEN

AT THE END OF THE BAKE TIME A SOUNDER WILL BE HEARD AND "BAKE OVER" WILL FLASH. TOUCH "**STOP**" AND OPEN THE DOOR TO REMOVE THE PRODUCT.

TO KEEP THE OVEN BAKING FOR EXTRA MINUTES THE "+ 10 MIN" BUTTON CAN BE TOUCHED. (THIS TIME CAN BE ALTERED IN SET UP)

5



TOUCHING "VIEW" BUTTON DURING A BAKE

TOUCHING "VIEW" BUTTON DURING A BAKE WILL SHOW THE SETTINGS FOR THE BAKE IN PROGRESS. TOUCH "CANCEL" TO GO BACK TO THE PREVIOUS SCREEN.



VIEW SCREEN

10 - 2 BAKING USING MANUAL MENU



SET BAKE TIME AND TEMPERATURE



SET BAKE TEMPERATURE
TOUCH TEMPERATURE ON THE
SCREEN TO ACTIVATE THE
KEYBOARD SCREEN.
KEY IN REQUIRED TEMPERATURE

2



SET BAKE TIME
TOUCH TIME ON THE SCREEN TO
ACTIVATE THE KEYBOARD SCREEN.
KEY IN REQUIRED TIME AND
TOUCH "DONE"

3



NOTE:
TIME DOES NOT HAVE TO BE SET IN MANUAL MODE. (ONLY TEMPERATURE)
WHEN START IS PRESSED, THE TIME WILL COUNT UP INSTEAD OF DOWN.
TOUCH STOP TO FINISH BAKE.

USE STEAM TIME AND DAMPER IF REQUIRED

STEAM
TOUCH AND HOLD FOR THE TIME (SECONDS) STEAM IS REQUIRED. (THIS CAN BE USED BEFORE OR DURING THE BAKE)

DAMPER
TOUCH TO OPEN THE DAMPER. (SYMBOL IS GREEN)
TOUCH TO CLOSE THE DAMPER. (SYMBOL IS RED)



CANCEL
TOUCH AT ANYTIME TO GO BACK TO THE SETTING SCREEN.

MANUAL BAKE SCREEN 2

START
TOUCH "START" TO START BAKE



TOUCH "STOP" WHEN END OF BAKE BUZZER SOUNDS OR WHEN REQUIRED IF NO TIME WAS ENTERED

SAVE MANUAL PROGRAM, IF REQUIRED



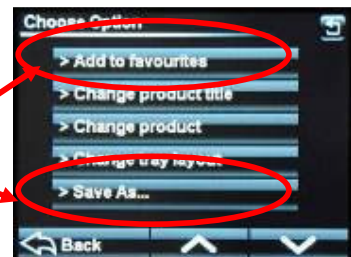
MANUAL BAKE SCREEN 3

SAVE SETTINGS

IF NO TIME WAS ENTERED AT THE START OF THE BAKE, WHEN STOP IS TOUCHED "SAVE" WILL APPEAR AT THE BOTTOM OF THE SCREEN. "SAVE" CAN BE TOUCHED AND AN OPTION SCREEN WILL APPEAR.

7

TOUCH "ADD TO FAVOURITES" OR "SAVE AS"



USE KEYBOARD TO TYPE THE REQUIRED NAME AND TOUCH "SAVE"



NOTE: In manual mode, only one operation of the steam or damper is saved.

10 - 3 BAKING USING PROGRAMMES

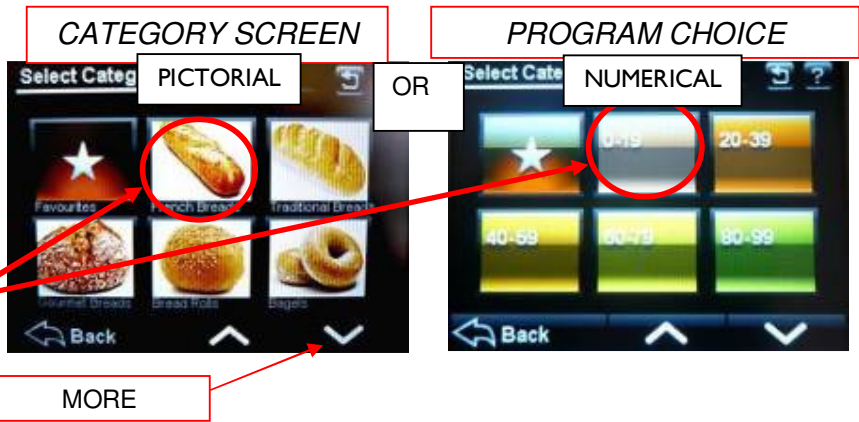
NOTE : THIS COVERS TWO VERSIONS OF FIRMWARE. (THE OVEN CAN BE PRE-SET TO SHOW ONLY ONE OF THEM).
 1. **PICTORIAL** VERSION SHOWS CHOICES OF PRODUCT CATERGORIES
 2. **NUMERICAL** VERSION SHOWS RANGES OF PROGRAM NUMBERS.

TOUCH TO OPEN
 "CATEGORY" or
 "PROGRAM CHOICE"
 SCREEN

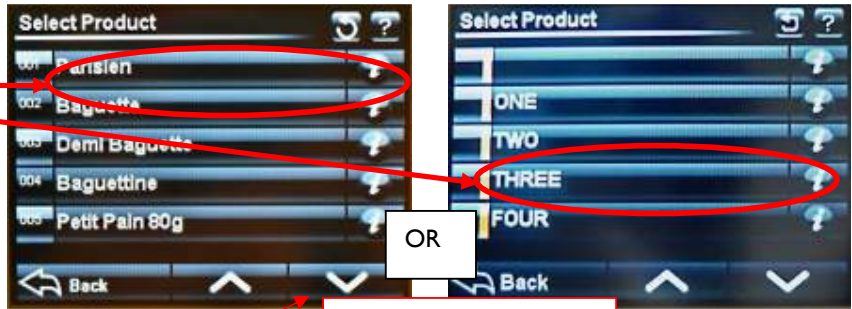


OPTION SCREEN

TOUCH THE TYPE OF
 PRODUCT OR PROGRAM
 RANGE CHOICE WANTED
 AND "SELECT" SCREEN
 OPENS



TOUCH THE
 NAME OR NUMBER OF
 THE PRODUCT
 REQUIRED



SCROLL DOWN FOR MORE PRODUCTS IF AVAILABLE

SELECT SCREEN

TOUCH THE
 "FULL LOAD" OR
 "HALF LOAD" AS
 REQUIRED



LOAD SCREEN

TOUCH THE "BACK"
 BUTTON AT ANY TIME
 TO RETURN TO THE
 PREVIOUS SCREEN

IF THE OVEN IS NOT UP TO TEMPERATURE IT WILL SHOW THE HEATING SCREEN.

WAIT FOR THE OVEN TO REACH TEMPERATURE

IF THE OVEN IS TOO HOT FOR THE TEMPERATURE CHOSEN, THE SCREEN WILL TELL YOU TO OPEN THE DOOR TO AID COOLING.



HEATING SCREEN



READY SCREEN

WHEN THE OVEN IS AT THE CORRECT TEMPERATURE, THE "READY" SCREEN WILL SHOW.

1. OPEN DOOR AND LOAD PRODUCT.
2. CLOSE THE DOOR FULLY.
3. TOUCH "START"

TIP

TO HELP TO KEEP THE OVEN HOT, TRY NOT TO KEEP THE DOOR OPEN MORE THAN NEEDED

5

THIS SCREEN WILL SHOW WHILE THE PRODUCT IS BAKING

BAKE PHASE (WHEN USED)

ACTUAL OVEN TEMPERATURE

SET TEMPERATURE

TEMPERATURE PROFILE BAR

BAKE TIME PROGRESS BAR



BAKE TIME LEFT

NOTE

The actual temperature shown will rise and fall above and below the set temperature as the oven cools and reheats. This is not a fault

BAKE OVER SCREEN

6

AT THE END OF THE BAKE TIME A SOUNDER WILL BE HEARD AND "BAKE OVER" WILL FLASH.

TOUCH "**STOP**" AND OPEN THE DOOR TO REMOVE THE PRODUCT.

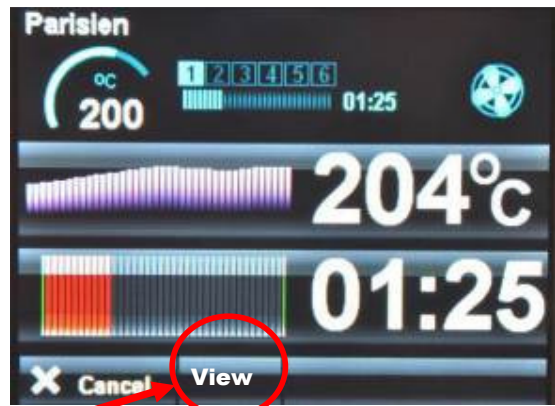
TO KEEP THE OVEN BAKING FOR EXTRA MINUTES THE "+ 10 MIN" BUTTON CAN BE TOUCHED.

(THIS TIME CAN BE ALTERED IN SET UP)



TOUCHING "VIEW" BUTTON DURING BAKE

TOUCHING "VIEW" BUTTON DURING BAKE WILL SHOW THE SETTINGS FOR THE BAKE IN PROGRESS. TOUCH "**CANCEL**" TO GO BACK TO THE PREVIOUS SCREEN.



VIEW SCREEN

10 - 4 CREATING A PROGRAM

TOUCH TO OPEN
"CATEGORY"
SCREEN

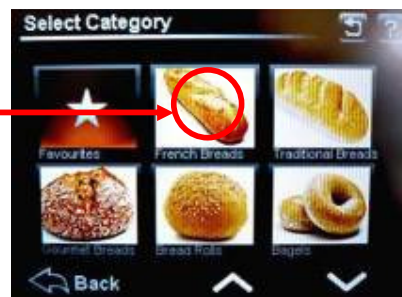
1



OPTION SCREEN

TOUCH THE TYPE
OF PRODUCT
WANTED AND THE
"SELECT" SCREEN
OPENS

2



CATEGORY SCREEN



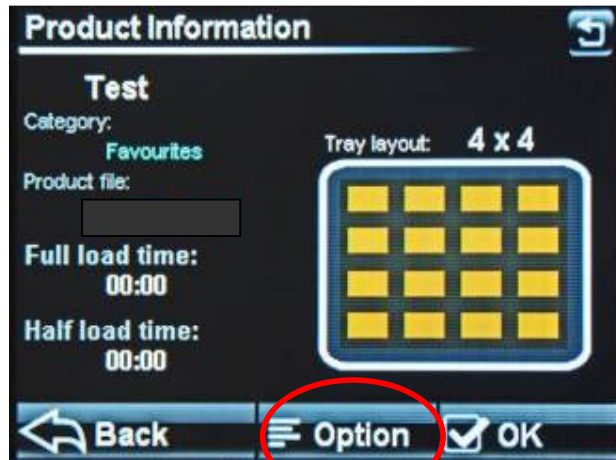
SELECT SCREEN

TOUCH THE DOWN ARROW
UNTIL A BLANK PROGRAM
IS REACHED.

3

TOUCH "I" BUTTON
NEXT TO THE BLANK
PROGRAM TO OPEN
NEXT SCREEN

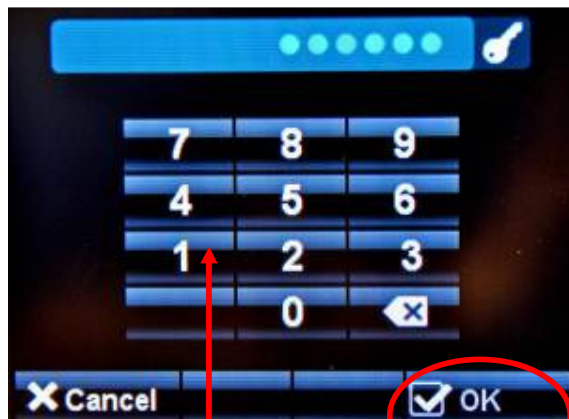
4



INFORMATION SCREEN

TOUCH OPTION TO GO TO
PASS CODE SCREEN

5

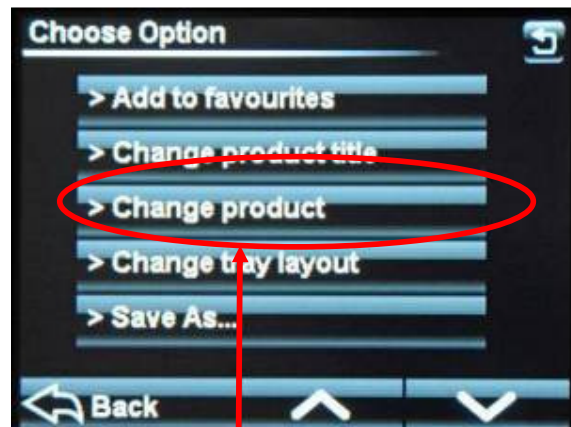


PASS CODE SCREEN

ENTER "SUPERVISOR" PASS CODE AND
THEN TOUCH OK.
(DEFAULT CODE = 123456)

6

CHANGE PRODUCT



OPTION SCREEN

TOUCH "CHANGE PRODUCT"

7

LOAD TYPE

VALUE CHANGE SCREEN



BAKE PHASE (IF REQUIRED)

INCREASE

OR USE KEYS

DECREASE

ENTER AMOUNT REQUIRED AND TOUCH DONE

POWER LEVEL

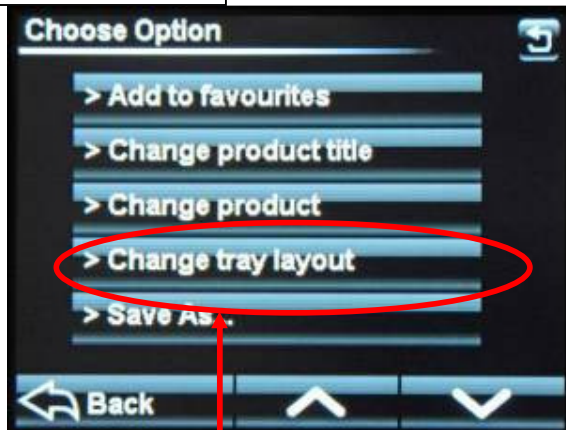
TOUCH EACH ITEM AND CHANGE THE VALUE BY USING THE UP AND DOWN KEYS OR BY USING THE KEY PAD.

TOUCH "FULL LOAD" TO CHANGE TO "HALF LOAD" SETTINGS IF REQUIRED. TOUCH AGAIN TO GO BACK TO "FULL LOAD"

TOUCH "SAVE" WHEN SATISFIED WITH THE SETTINGS OF EACH LOAD TYPE.

8

CHANGE TRAY LAYOUT



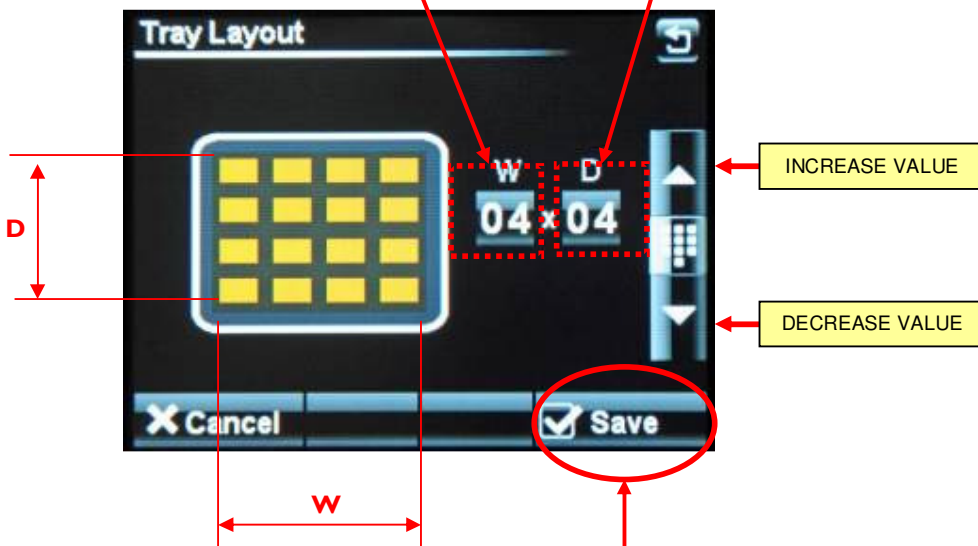
OPTION SCREEN

TOUCH "CHANGE TRAY LAYOUT"

9

TOUCH TO ADJUST
NUMBER OF PRODUCTS
ACROSS THE TRAY

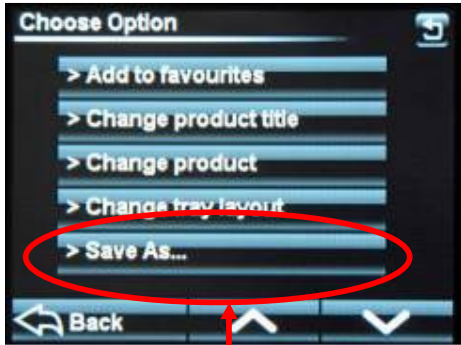
TOUCH TO ADJUST
NUMBER OF PRODUCTS
DOWN THE TRAY



WHEN SATISFIED WITH THE TRAY
LAYOUT TOUCH SAVE TO RETURN TO
THE "OPTIONS" SCREEN

10

SAVE



OPTION SCREEN

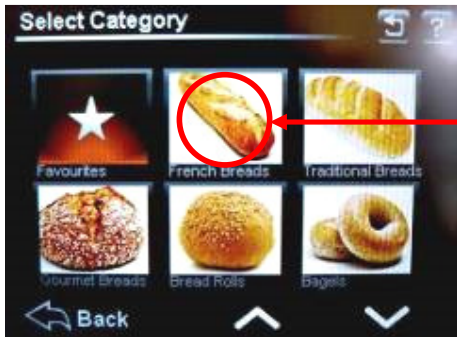
TOUCH "SAVE AS" 11



KEYBOARD SCREEN

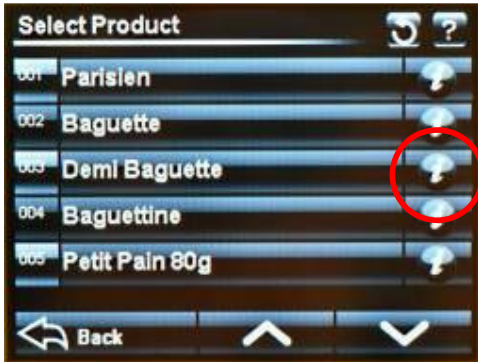
TYPE IN THE NEW NAME AND TOUCH "SAVE" 12

ADD A PRODUCT TO THE FAVOURITES LIST



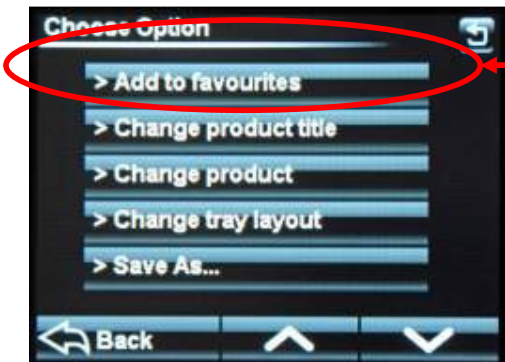
CATEGORY SCREEN

1
TOUCH THE TYPE OF PRODUCT WANTED AND THE "SELECT" SCREEN OPENS



SELECT SCREEN

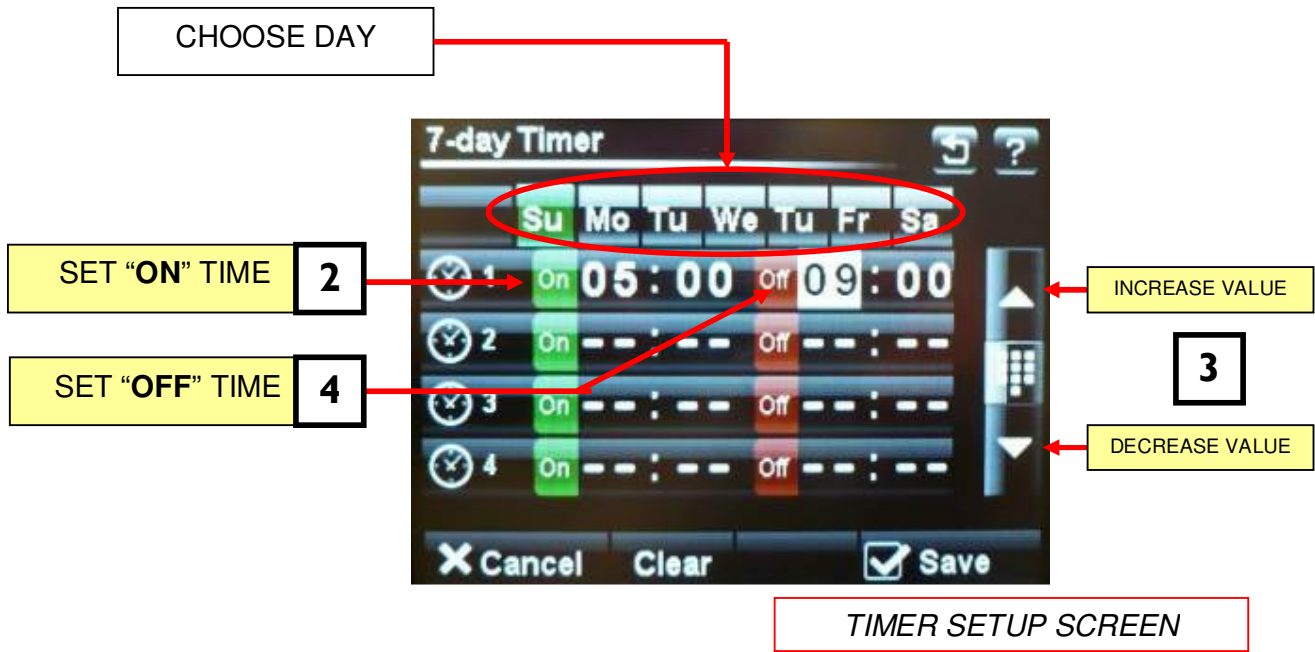
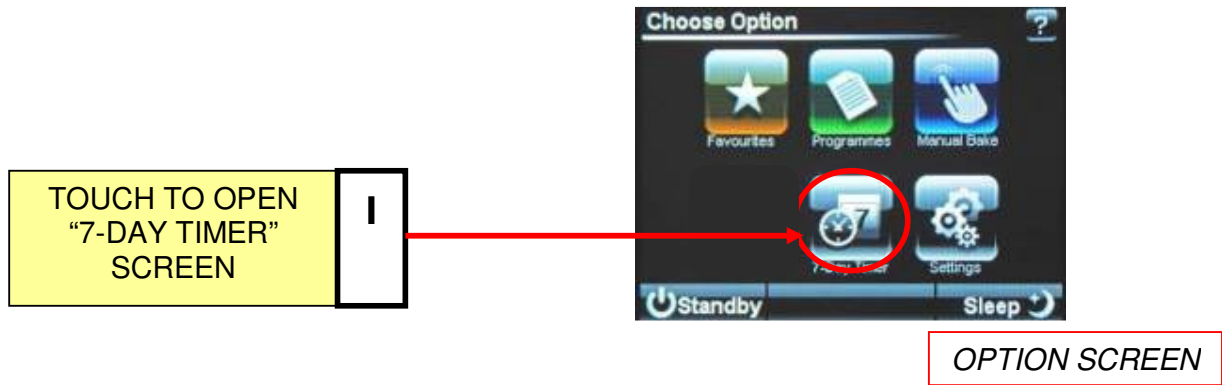
2
TOUCH THE "i" (INFORMATION) BUTTON NEXT TO THE PRODUCT YOU WANT AS A FAVOURITE. THIS OPENS THE OPTION SCREEN



OPTION SCREEN

3
TOUCH "ADD TO FAVOURITES"
THE PRODUCT WILL NOW SHOW ON THE FAVOURITES LIST

10 - 5 SETTING 7-DAY TIMER



NOTE

Up to four on/off times can be set for each day.
 Touch "clear" to clear the settings on the day shown.
 Touch "save" to activate the times set.

10 - 6 SETTINGS



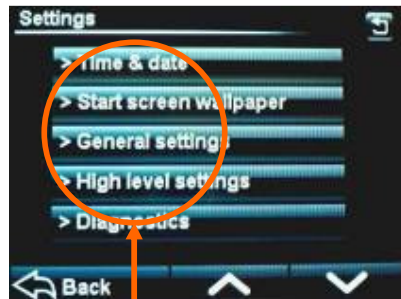
TOUCH TO OPEN THE "SETTINGS" SCREEN

OPTION SCREEN



PASS CODE SCREEN

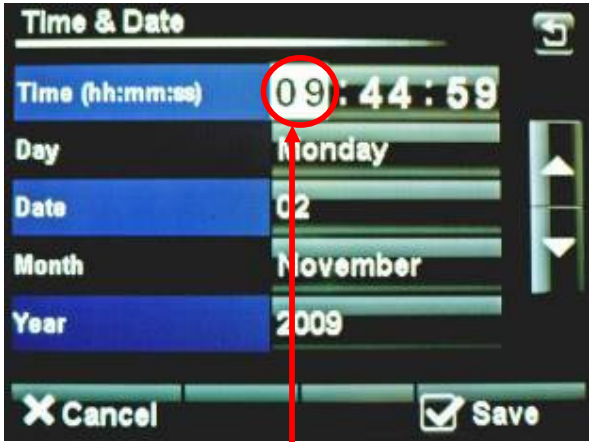
ENTER "SUPERVISOR" PASS CODE AND THEN PRESS OK. (DEFAULT CODE = 123456)



SETTINGS SCREEN

CHOOSE THE SETTING TO ALTER

TIME AND DATE



TOUCH THE SCREEN TO HIGHLIGHT THE ITEM TO CHANGE **1**

USE THE INCREASE / DECREASE BUTTONS TO ALTER THE SETTINGS **2**



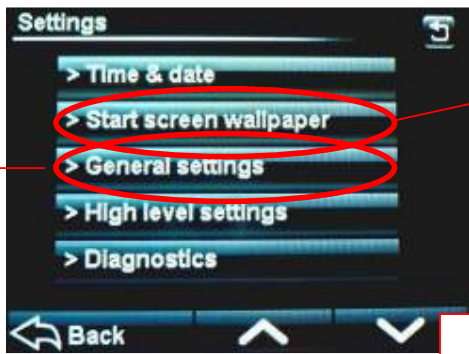
TIME AND DATE SCREEN

WHEN ALL INFORMATION IS CORRECT, TOUCH "SAVE". THIS WILL RETURN TO THE SETTINGS SCREEN **3**



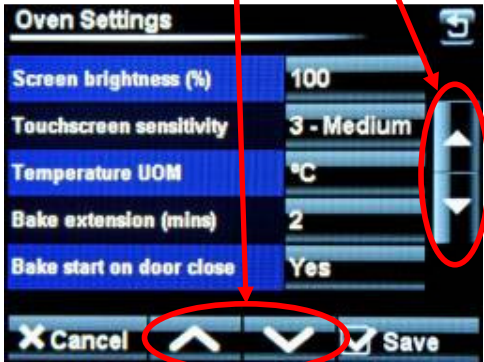
SETTINGS SCREEN

OVEN SETTINGS (GENERAL)



SETTINGS SCREEN

TOUCH "GENERAL SETTINGS" AND THE FOLLOWING SCREEN WILL APPEAR.
SCROLL DOWN TO MOVE THROUGH ALL CHOICES
AND ADJUST EACH ONE AS REQUIRED, USING THE ARROW KEYS.



OVEN SETTINGS EXPLAINED - GENERAL LEVEL

SCREEN BRIGHTNESS –

Adjusts the brightness of the viewing screen for user comfort.

TOUCHSCREEN SENSITIVITY –

Adjusts the pressure required to operate the touch screen. (5 settings)

TEMPERATURE UNIT OF MEASURE –

Centigrade (Celsius) or Fahrenheit

BAKE EXTENSION (mins) –

Adjusts the extra time at the end of a bake for each “extra time” button touch. (10mins max)

BAKE START ON DOOR CLOSE –

This will start the set bake program as soon as the door closes.

SLEEP MODE DELAY –

Oven will go into sleep mode after the set minutes, providing it is up to temperature and has been through at least one bake cycle.

8 HOUR COUNTDOWN TIMER –

After 8 hours the oven gives a warning and then turns off.
Touch any button for an extra hour if required.

POWER LEVEL (1-4) –

Set these as required for each level to be used.

CHART INTERVAL –

Time interval in seconds that the bars show on the heat and bake time progress charts.

SOUNDER SELECT –

Set as external or onboard.

SOUNDER TONE –

Select a tone – Voice or Off

SOUNDER VOLUME –

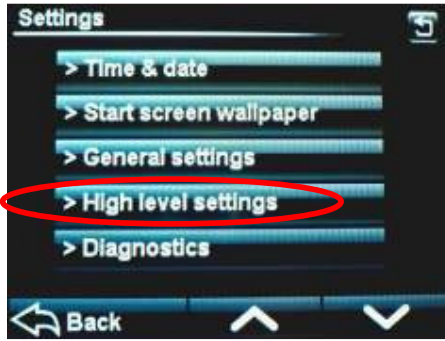
Adjust to suit the volume required. (onboard sounder only)

SHORTCUT BUTTONS –

- 1 fn**
- 2 fn**
- 3 fn**
- 4 fn**
- 5 fn**

<p>Gives the choice of what buttons are active and in which order they appear on the options screen. Options available = Favourites, Programs, Manual bake, Multi bake, 7-day timer . (Settings at 6fn cannot be changed)</p>
--

OVEN SETTINGS (HIGH LEVEL)



TOUCH "HIGH LEVEL SETTINGS" AND THE FOLLOWING SCREEN WILL APPEAR.

1

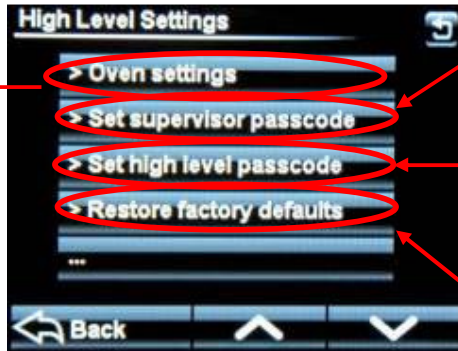
SETTINGS SCREEN



ENTER "HIGH LEVEL" PASS CODE AND THEN TOUCH OK.

2

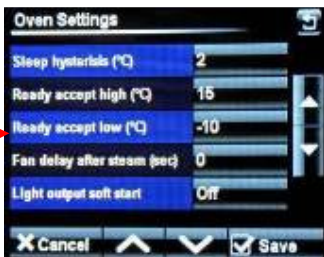
THE FOLLOWING SCREEN WILL APPEAR.



CHANGE SUPERVISOR PASSWORD HERE

CHANGE HIGH LEVEL PASSWORD HERE

RESTORES ALL SCREENS BACK TO ORIGINAL DEFAULT SETTINGS (NOT PASSCODES)



SCROLL DOWN TO MOVE THROUGH ALL CHOICES AND ADJUST EACH ONE AS REQUIRED, USING THE ARROW KEYS.

3

OVEN SETTINGS EXPLAINED - HIGH LEVEL

OVEN TYPE –

Set this to MX.

MAX. BAKE TEMPERATURE –

Can be set up to 300C , (depending on the oven type)

TEMPERATURE OFFSET –

Can be used to adjust the display to the actual temperature in the oven.

BAKE HYSTERISIS –

Sets bake temperature cycling around a set point. (Above and below).

SLEEP FALLBACK –

Temperature of the oven in “sleep mode” (100C is suggested).

SLEEP HYSTERISIS –

Sets “sleep mode” temperature cycling around a set point. (Above and below).

READY ACCEPT HIGH –

Highest temperature for the oven to display “READY”

READY ACCEPT LOW –

Lowest temperature for the oven to display “READY”

FAN DELAY AFTER STEAM –

Delay before fan starts after the oven has steamed. (60 seconds max)

LIGHT OUTPUT SOFT START –

On/Off Some lights need this for cold start up to stop them blowing.

AUTO FAN CYCLE TIME (MINS) –

Set time required. Only used in manual and multibake modes.

AUTO FAN DWELL TIME –

Set time required. Only used in manual and multibake modes.

HEATER CONTROL –

Contact or solid state. Defaults to contactor. (solid state not used at the moment)

I/O DIAGNOSTIC –

Displays outputs and inputs at the top of the screen to aid fault finding if needed.

DEFAULT PASSCODES

SUPERVISOR (LOW LEVEL) -- 123456

HIGH LEVEL -- 654321

MASTER -- 314159 (This is fixed)

SUGGESTION

To stop unauthorised changes to the oven setup, it is suggested that this page is removed from this manual and kept in a safe place for future reference.

If tampering could be a problem, It is a good idea to change the passcodes at regular intervals,.

10 - 7 USING THE USB PORT



START SCREEN

Ensure the Start screen is showing

1



Insert the USB memory stick into the socket on the oven panel. (Rubber plug may have to be removed first).

2

NOTE

The USB stick will only fit in one way.
Do not force into the socket.



Wait for the USB symbol to finish moving

3



If old firmware is found, the firmware version screen will appear.

Touch "OK" to update firmware

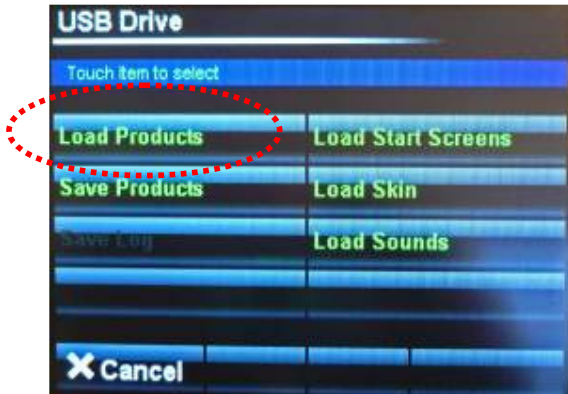
-Wait-

Remove USB stick

OR

Touch "CANCEL" to choose other items to update or change. (see next page)

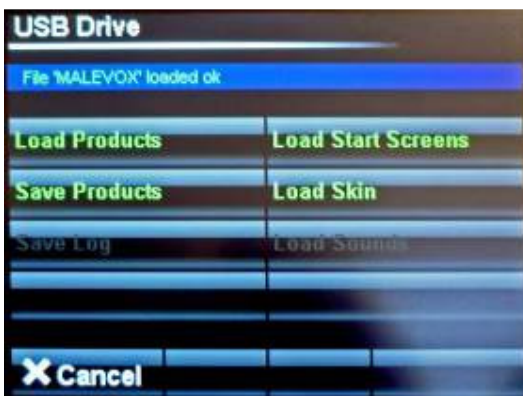
4



Choose action you would like to do. **5**



Select the file required. **6**



When confirmation of "file loaded ok" Shows, remove the usb stick. **7**

NOTES ON USING USB STICKS

For a USB stick to function correctly it must have the following folder in the root folder .

Mono

Then into that folder add the following:

- Firmware**
- Products**
- Skins**
- Sounds**
- Startup**

Place your recipe/product files in the “**products**” folder.

The oven will find the “**Mono**” folder automatically when the stick is plugged into the oven.
Any stick can be used (does not have to be blank) but the Mono folder must be in the root folder.

The most used folders are explained below:

SKINS

These control the way the screen looks in different modes.

Pictorial is when the screen displays categories using pictures.



Numerical is when the screen displays program numbers.



STARTUP SCREENS

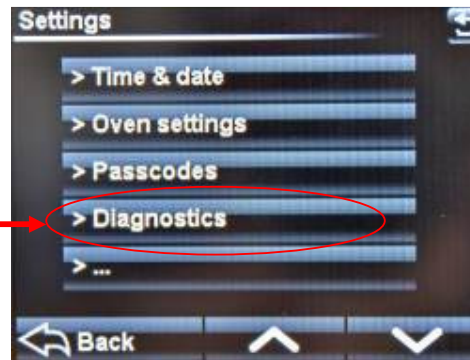
This is the picture/logo you see when the oven is started.



PRODUCT FILES (PROGRAM FILES)

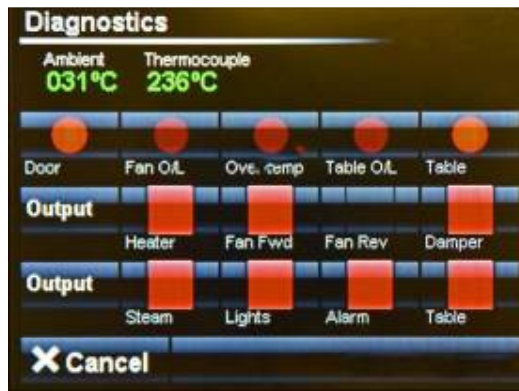
These are the files that contain the information for baking each product e.g. bread,buns,cakes etc.

10 - 8 DIAGNOSTICS



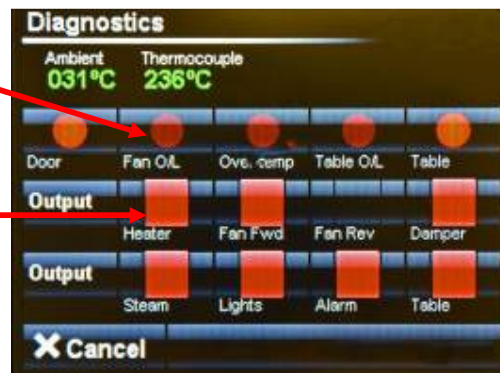
SETTINGS SCREEN

TOUCH "DIAGNOSTICS" AND THE FOLLOWING SCREEN WILL APPEAR.



DIAGNOSTICS SCREEN

INPUTS HIGHLIGHT WHEN A SIGNAL IS Received.
e.g. DOOR OPEN



TOUCH THE REQUIRED OUTPUT AND A SIGNAL IS SENT TO THAT ITEM. THE OUTPUT BEING CHECKED IS HIGHLIGHTED WHEN ACTIVE. TO STOP THE OUTPUT, PRESS AGAIN.

11.0 ELEMENT BANK REMOVAL

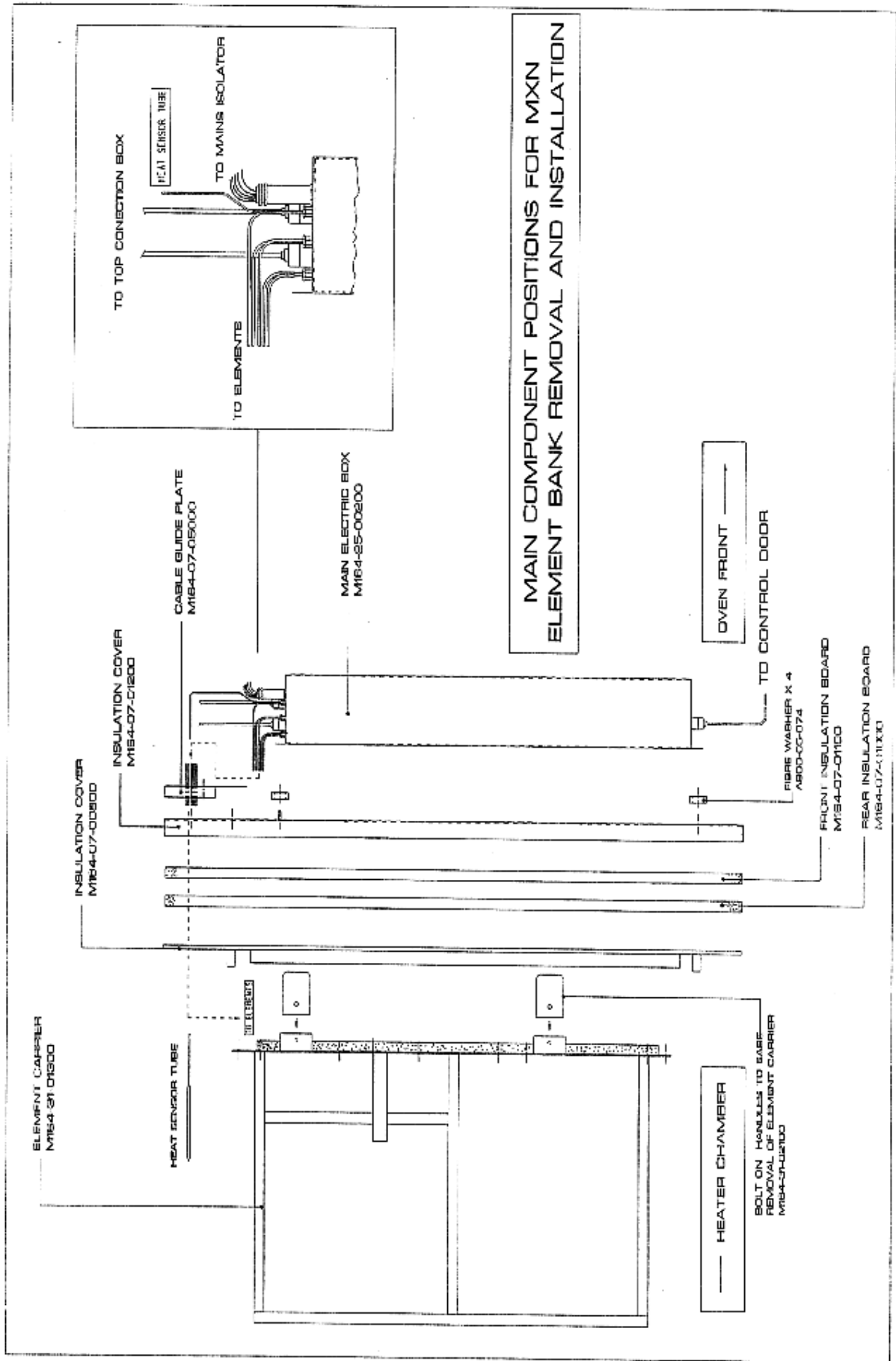
(SEE DRAWINGS ON NEXT PAGES)

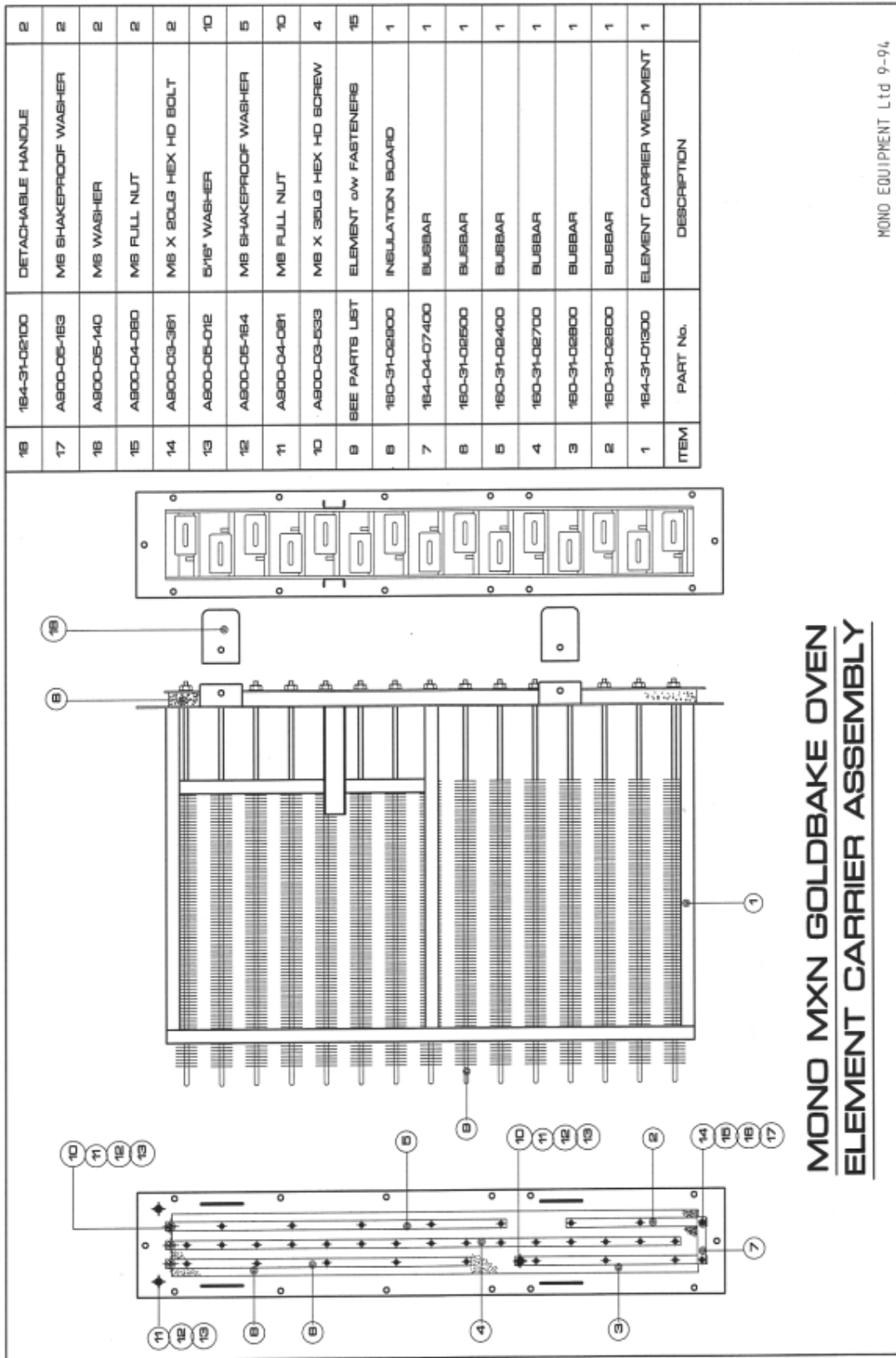


- 1 **Ensure oven is DISCONNECTED from consumer power supply.**
----(DO NOT ONLY USE OVEN ISOLATOR)----
- 2 Disconnect two plug connectors from sockets at the top of main electrical box and one plug connector from the bottom of the box.
- 3 Disconnect element supply cables from inside the box.
- 4 Disconnect cables from mains isolator.
- 5 Unscrew cable guide plate and slide away down heat sensor tubing.
- 6 Remove insulation material from cable guide plate area.
- 7 Unscrew retainer screw on heat sensor holder and slide out sensor tube leaving holder in place.
- 8 Loosen nuts clamping conduit tube to main isolator bracket.
- 9 Loosen bottom electrical box holding nuts.
- 10 Remove top electrical box holding nuts.
- 11 Pull top of box forward, disengaging conduit from bracket and lift slots off studs at bottom. **(Be careful not to damage heat sensor tube.)**
- 12 Slide insulation covers and insulation boards out of chamber to reveal element carrier front face.
- 13 Bolt on two handles (part no. M164-31-02100) to fixing lugs on front face of carrier assembly.
- 14 Remove 14 hex. head bolts from around front face of carrier and slide complete assembly out of heater.

12.0 ELEMENT BANK REPLACEMENT

- This is the reversal of 12.1 - 12.14, but ensure all insulation is replaced and that the insulation ladder tape on heater chamber front face is in good condition





ITEM	PART No.	DESCRIPTION
18	184-31-02100	DETACHABLE HANDLE
17	A800-05-183	MS SHAKEPROOF WASHER
16	A800-05-140	MS WASHER
15	A800-04-080	MS FULL NUT
14	A800-03-381	MS X 20LG HEX HD BOLT
13	A800-05-012	5/16" WASHER
12	A800-05-184	MS SHAKEPROOF WASHER
11	A800-04-081	MS FULL NUT
10	A800-03-838	MS X 36LG HEX HD SCREW
9	SEE PARTS LIST	ELEMENT c/w FASTENERS
8	180-31-06900	INSULATION BOARD
7	184-04-07400	BUSBAR
6	180-31-06600	BUSBAR
5	180-31-06400	BUSBAR
4	180-31-06700	BUSBAR
3	180-31-06800	BUSBAR
2	180-31-06800	BUSBAR
1	184-31-01300	ELEMENT CARRIER WELDMENT

**MONO MXN GOLDBAKE OVEN
ELEMENT CARRIER ASSEMBLY**

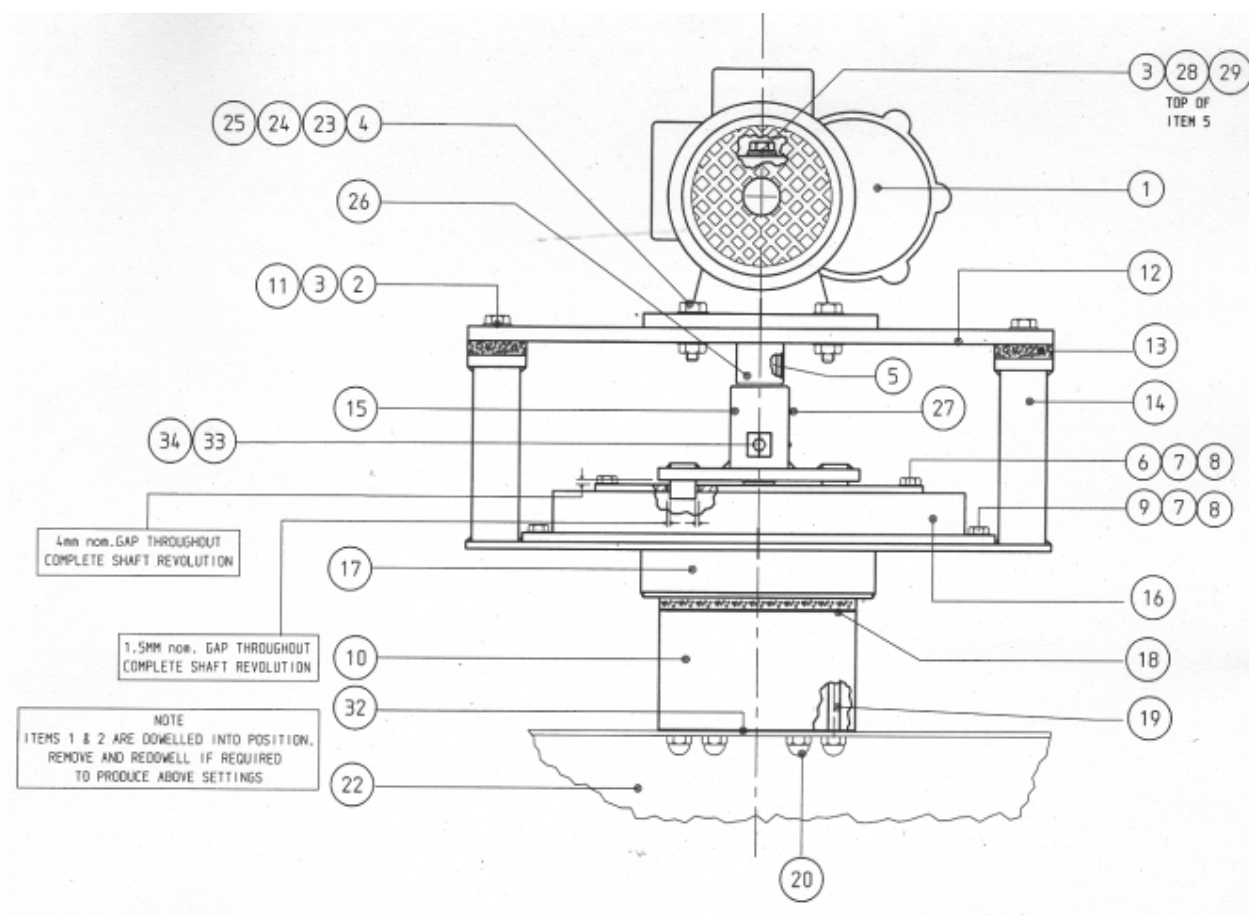
MONO EQUIPMENT Ltd 9-94

13.0 Rack Drive/Turntable parts



WARNING: KEEP CLEAR OF LARGE FLUE PIPE ON ROOF WHEN DOING ANY MAINTENANCE ON TOP OF OVEN. VERY HOT AIR IS EJECTED.

MONO MXT OVEN TURNTABLE DRIVE COMPONENTS

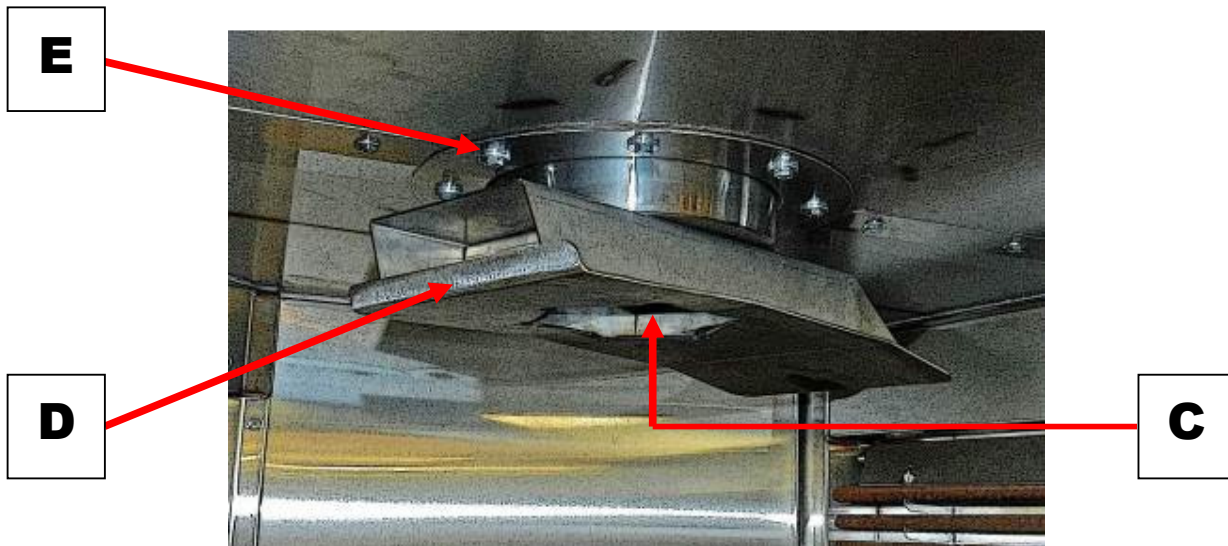


MONO MXT OVEN TURNTABLE DRIVE
COMPONENTS DESCRIPTION

(see drawing on previous page)

Item	Part no	Description	Qty
1	B912-74-009	Gearmotor unit (Varvel MRA70)	1
2	A900-05-143	M10 Plain washer	4
3	A900-05-142	M10 Spring washer	5
4	A900-03-387	M12 x 45LG Hex.Hd. setscrew	4
5	162-02-04100	Drive shaft assy (shaft key pin)	1
6	A900-03-383	M8 x 25LG Hex.Hd.setscrew	8
7	A900-05-144	M8 Plain washer	16
8	A900-05-141	M8 Spring washer	16
9	A900-03-439	M8 x 50LG Hex.Hd.setscrew	8
10	160-36-01000	Turntable drive (lower)	1
11	A900-03-438	M10 x 45LG. Hex.Hd.setscrew	4
12	160-15-00600	Top plate	1
13	160-15-00700	Insulation packing piece	4
14	160-36-00100	Bearing support plate assy.	1
15	162-02-04400	Drive spider	1
16	160-36-00300	Turntable bearing	1
17	160-15-00800	Turntable drive (upper)	1
18	160-15-01400	Insulation disc	1
19	160-36-01100	M10 Stud	6
20	A900-04-096	M10 Dome nut	6
21			
22	160-36-00600	Rack hanger. (ref. only)	1
23	A900-05-022	½" Plain washer	8
24	A900-05-059	½" Spring washer	8
25	A900-04-084	M12 Nut	4
26	162-02-04300	Spacer	7
27	A900-03-436	M6 x 10LG Grub screw	2
28	162-02-045	Washer (drive shaft)	1
29	A900-03-395	M10 x 16LG hex.Hd. setscrew	1
30	160-35-02000	Direction of rotation label	1
31	A900-03-628	M4 x 6LG slotted pan ho. screw	2
32	160-40-06102	Packing shim for rack hanger (14swg) as required	
	160-40-06103	-----"----- (20swg)-----"	
33	A900-03-360	M6 x 12LG Hex.Hd. setscrew	1
34	A900-05-163	M6 Shakeproof washer	1

TO RENEW THE RACK DRIVE SEAL



This seal is situated inside the oven above the ring plate surrounding the Rack hanger shaft.

- 1 Release the six dome nuts (C) securing the rack hanger to its shaft and remove the hanger (D). Release the screws securing the ring plate and remove the plate (E).
- 2 Pick out the rubber ring seal and coiled rope seal from within the cavity and carefully coil in the new seal, ensuring that it is not distorted. Replace the rubber ring seal.
- 3 Refit the ring plate and the rack hanger.

ROPE SEAL PT No. A900-32-016
RUBBER SEAL PT No A900-12-060

14.0 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

MONO

Queensway

Swansea West Industrial Estate

Swansea. SA5 4EB UK

email: spares@monoequip.com

Web site: www.monoequip.com

Tel. 01792 561234

Spares +44(0)1792 564039

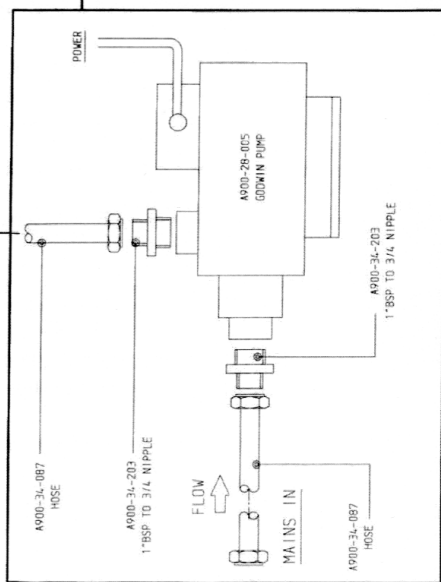
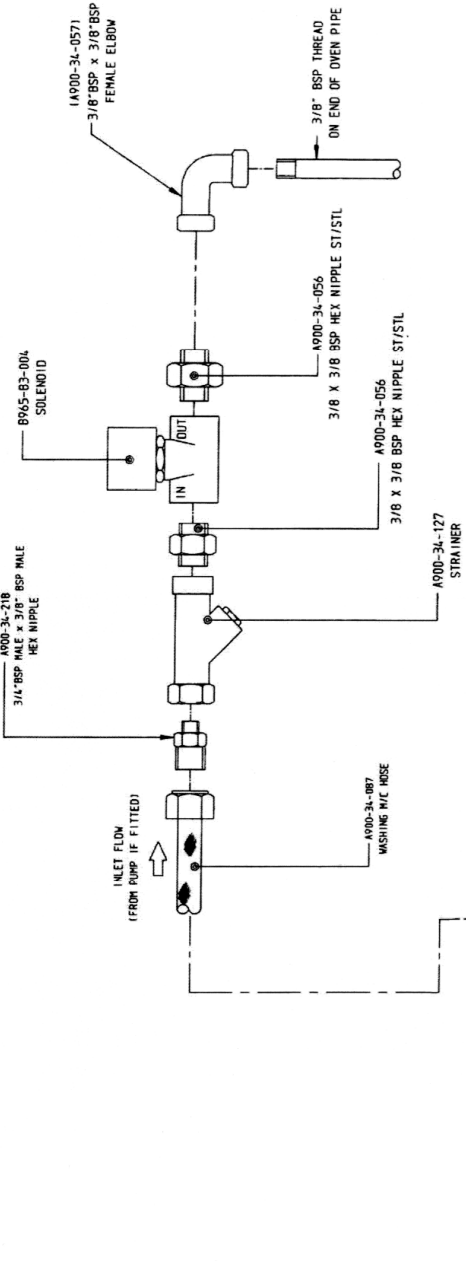
Fax. 01792 561016



15.0 ELECTRICS (WITHOUT PUMP)

DO NOT SCALE - IF IN DOUBT ASK

ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED



IF FITED

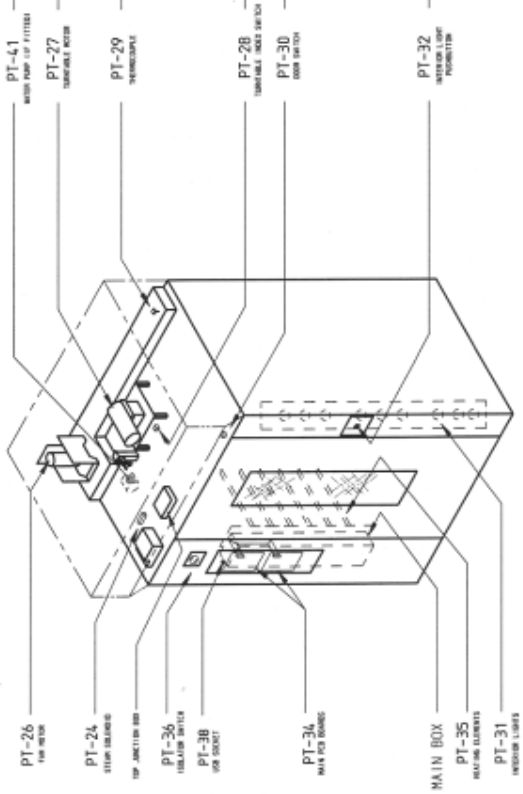
SPARES KIT - M164-KSE010 (NO PUMP)

REV	SIG	DATE	REVISION	ECN NO.
C	JC	14-02-18	UPDATED A900-34-056 NIPPLE ST/STL WAS A900-34-061 MK-006-17-18	
B	RAC	19-04-11	FLOW VALVE REMOVED	069/11
A	S.P.	11-2-98	PIPE FITTINGS CHANGED	067/3
MONO EQUIPMENT SWANSEA WEST IND PARK SWANSEA, SA5 4EB. TEL: (01782) 861234 FAX: (01782) 561016				
MATERIAL			TITLE: STANDARD MX OVEN WATER INLET COMPONENTS (PUMP IF FITTED)	
DRAWN: RAC		PURCHASE ORDER NO.		WORKS ORDER NO.
DATE: 16-12-96		NO. REQ.		
DRAWING SCALE: NTS		DRAWING NO. M164-01-02300		REV: []

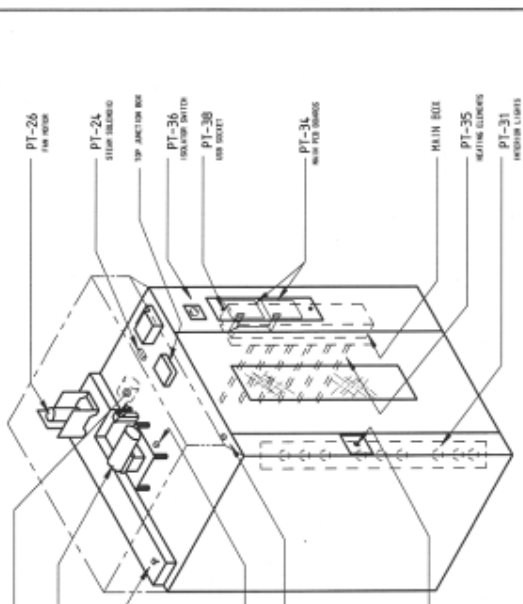
REMOVE ALL BURRS & SHARP EDGES - ON SHEET METAL PARTS EXTERNAL CORNERS TO BE SAFETY RADIUSED 2mm UNLESS STATED OTHERWISE
 SURFACE MACHINING: COARSE FINISH FINE FINISH GROUND FINISH
 OPEN TOL. ± 0.150 & BELOW ± 0.075 OVER 0.075 TO 0.300 ± 0.10 DECIMAL DIMS. ± 0.25 TO 300 ± 0.30 TO 300 ± 0.40 TO 300 ± 0.50 OVER 600 ± 1.0
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 1st ANGLE

IF IN ANY DOUBT - ASK

R.H. OVEN



L.H. OVEN




REV	SIG	DATE	REVISION	ECN NO.
<p>MONO EQUIPMENT 1000 BROADWAY SWANSEA WEST IND PARK SWANSEA, SA5 4EB. TEL: (01782) 561234 FAX: (01782) 561016</p>				
<p>ELECTRICAL SPECIFICATIONS:- 415V 3PH 50Hz</p>			<p>TITLE: MXT MAIN COMPONENTS LAYOUT</p>	
<p>DRAWN: JC/RAC</p>			<p>ELECTRICALLY APPROVED BY:-</p>	
<p>DATE: 23-03-12</p>			<p>DRAWING NO.: M164E25-36100</p>	
<p>REV.: 1 of 2</p>			<p>REV.: 1</p>	

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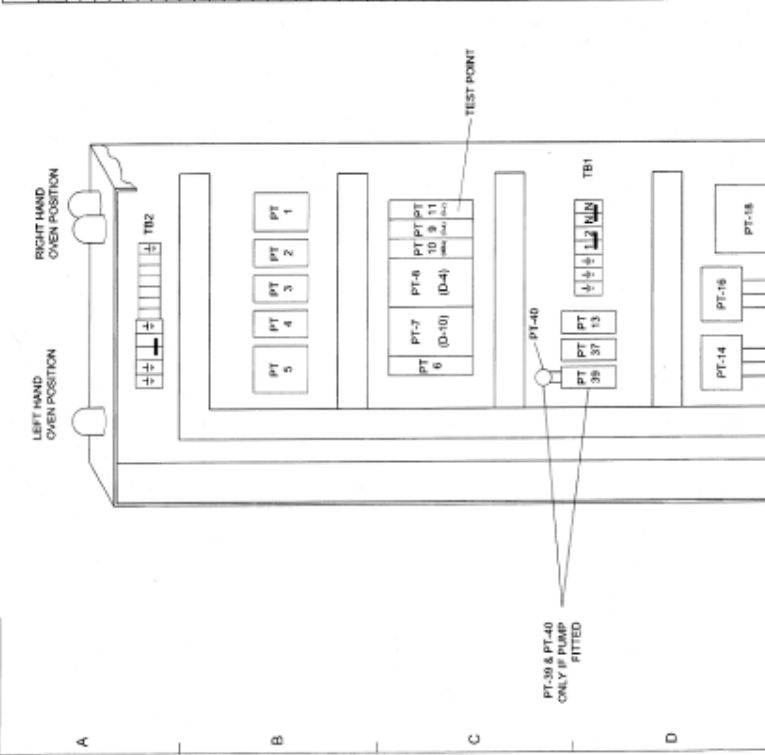
IF IN ANY DOUBT - ASK

DRAWING		DESCRIPTION		MONO	
PT-Ref				PART NUMBER	
PT-1	OVERHEAT THERMOSTAT			8873-30-015	
PT-2	HEATING ELEMENT MCB.			8872-22-074	8721-67-011
PT-3	HEATING ELEMENT MCB.			8872-22-074	8857-94-007
PT-4	HEATING ELEMENT MCB.			8872-22-074	8801-12-022
PT-5	HEATING ELEMENT CONTACTOR			8801-08-032	8801-14-005
PT-6	MAIN FAN MOTOR MCB AUXILIARY CONTACT			8872-07-004	8801-09-011
PT-7	MAIN FAN MOTOR MCB.			8872-22-054	8801-15-024
PT-8	TURNTABLE MOTOR MCB.			8872-22-052	158-25-80000
PT-9	INTERIOR LIGHT MCB..			8872-22-003	8979-04-001
PT-10	PUMP MOTOR MCB.			8872-22-062	8872-22-078
PT-11	CONTROL MOTOR MCB.			8872-22-061	8872-02-004
PT-13A	INTERIOR LIGHT RELAY.			8801-37-001	8872-19-001
PT-13B	INTERIOR LIGHT RELAY BASE.			8801-36-001	8801-37-001
PT-14	MAIN FAN MOTOR CONTACTOR.			8801-08-031	8801-36-001
PT-15	MAIN FAN MOTOR THERMAL OVERLOAD.			8801-01-042	8705-25-009
PT-16	TURNTABLE MOTOR CONTACTOR.			8801-08-031	8801-37-001
PT-17	TURNTABLE MOTOR THERMAL OVERLOAD.			8801-01-041	8801-36-001
PT-18	24V DC POWER SUPPLY.			8801-93-005	8842-48-010
PT-19	BUZZER (OPTION)			8723-92-002	A900-28-005
PT-24	STEAM SOLENOID.			8965-83-004	8842-92-005
PT-25	DAMPER SOLENOID.			8998-83-005	
PT-26	MAIN FAN MOTOR.			8859-74-024	
PT-27	TURNTABLE MOTOR UNIT.			8912-74-009	
PT-28A	TURNTABLE INDEX SWITCH BODY.			8801-11-013	
PT-28B	TURNTABLE INDEX SWITCH HEAD.			8801-45-003	
PT-28C	TURNTABLE INDEX SWITCH ACTUATOR.			8801-45-004	
PT-29	THERMOCOUPLE.			8709-95-001	
PT-30A	DOOR SWITCH BODY.			8801-11-013	
PT-30B	DOOR SWITCH HEAD.			8801-45-003	
PT-30C	DOOR SWITCH ACTUATOR.			8801-45-004	
PT-31A	INTERIOR LIGHT HOLDER.				
PT-31B	INTERIOR LIGHT BULB.				
PT-32A	INTERIOR LIGHT PUSHBUTTON.				
PT-32B	INTERIOR LIGHT PUSHBUTTON CONTACT BLOCK				
PT-32C	INTERIOR LIGHT PUSHBUTTON ENCLOSURE.				
PT-32D	INTERIOR LIGHT PUSHBUTTON LEGEND.				
PT-34	PCB ASSY				
PT-35	HEATING ELEMENT.				
PT-36A	MOULDED CASE CIRCUIT BREAKER.				
PT-36B	UNDERVOLTAGE RELEASE COIL.				
PT-36C	DOOR HANDLE AND SHAFT.				
PT-37A	HEATER CONTACTOR RELAY.				
PT-37B	HEATER CONTACTOR RELAY BASE.				
PT-38	USB CABLE				
PT-39a	PUMP RELAY (IF PUMP FITTED)				
PT-39b	PUMP RELAY BASE (IF PUMP FITTED).				
PT-40	SUPPRESSOR UNIT (IF PUMP FITTED).				
PT-41	WATER PUMP (IF FITTED).				
PT-42	SPEAKER				

REV	SIG	DATE	REVISION	ECN NO.
 MOND EQUIPMENT SWANSEA WEST IND PARK SWANSEA, SA5 4EB. TEL: (01792) 581234 FAX: (01792) 581016				
ELECTRICAL SPECIFICATIONS:-			TITLE: COMPONENT PART LIST FOR MXT COLOURSMART OVEN	
DRAWN: JC/RAC			ELECTRICALLY APPROVED BY:-	
DATE: 26-03-12			DRAWING NO. M164E25-36100	
			REV: --	

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PART REFERENCE	BRIDGE ID	DESCRIPTION	PART NUMBER	Notes Part Number
PT-1	001014	Overheat Thermocouple	18487	8873-30-515
PT-2	001016	Heating Element MCB	18487	8872-22-024
PT-3	001016	Heating Element MCB	18487	8872-22-024
PT-4	001016	Heating Element MCB	18487	8872-22-024
PT-5	0030063	Heating Element Contact	LC1020A07	8863-06-012
PT-6	001002	Main Fan Motor MCB Auxiliary Contact	AMN06014	8872-07-004
PT-7	001004	Main Fan Motor MCB	AMN53139	8872-22-024
PT-8	001004	Turbidimeter Motor MCB	AMN53164	8872-22-024
PT-9	001004	Interior Light MCB	AMN53164	8872-22-024
PT-10	003002	Pump Motor MCB	AMN53164	8872-22-024
PT-11	003002	Control Motor MCB	AMN53164	8872-22-024
PT-12	003002	Interior Light Relay	8863-07-003	8863-07-003
PT-13	004002	Control Motor Relay	8863-07-003	8863-07-003
PT-14	004002	Main Fan Motor Overload	LC1020B	8863-07-003
PT-15	001002	Main Fan Motor Thermal Overload	18012	8862-01-042
PT-16	004002	Turbidimeter Motor Overload	LC1020B	8863-07-003
PT-17	001002	Turbidimeter Motor Thermal Overload	18012	8862-01-042
PT-18	001002	JAY DC Power Supply	18012	8862-01-042
PT-19	001002	Barrier (Optional)	ABL13842A015	8863-01-005
PT-20	001002	Steam Solenoid	8872-02-002	8872-02-002
PT-21	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-22	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-23	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-24	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-25	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-26	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-27	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-28	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-29	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-30	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-31	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-32	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-33	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-34	001002	Strainer Assembly	8872-02-002	8872-02-002
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PT-36	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-37	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-38	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-39	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-40	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-41	001002	Strainer Assembly	8872-02-002	8872-02-002
PT-42	001002	Strainer Assembly	8872-02-002	8872-02-002



REV	DATE	DESCRIPTION	ECN NO.
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D	12.19.2013	TD	-
C	17.10.2012	TD	-
REV	8/0	DATE	REVISION

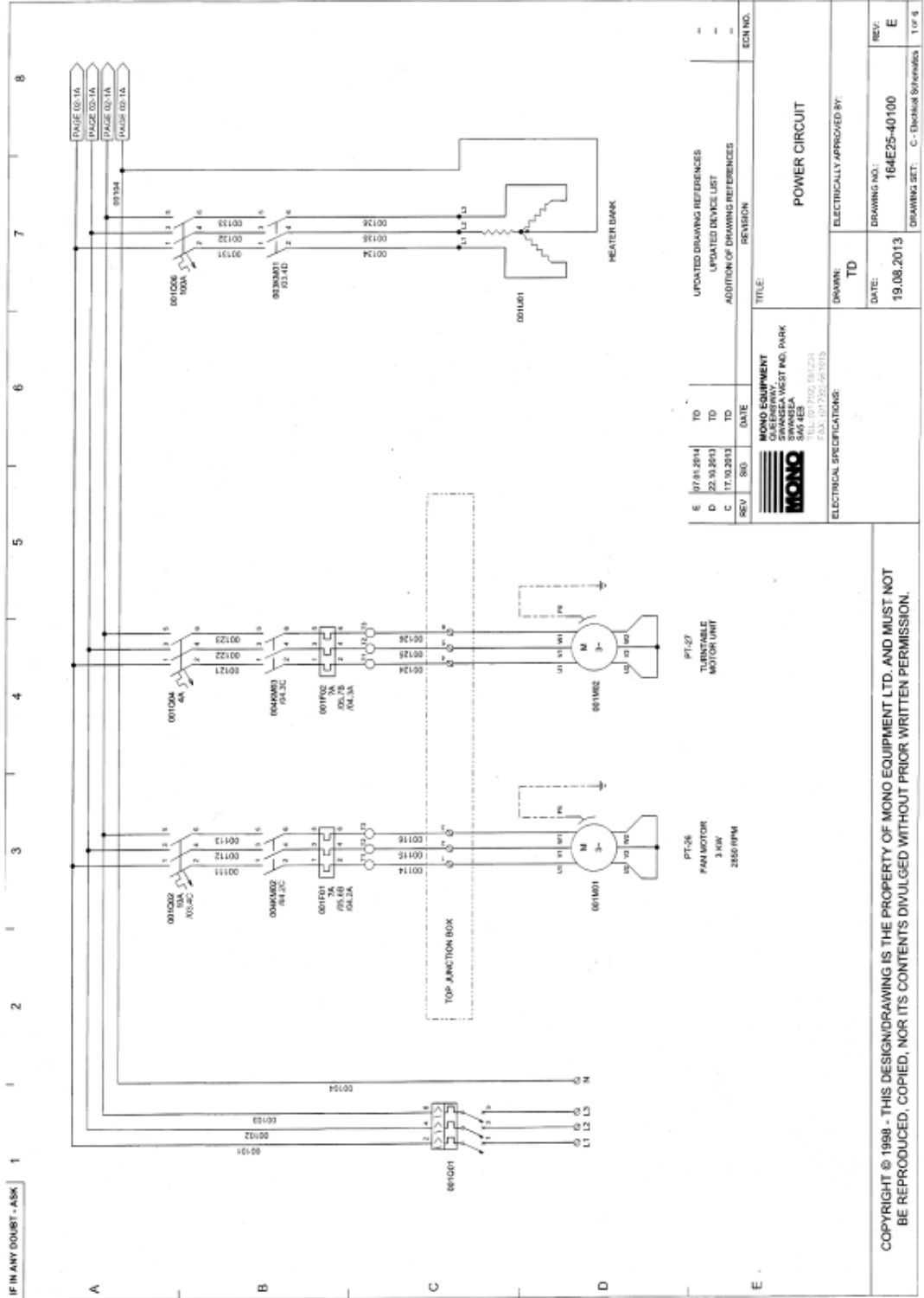
MONO EQUIPMENT
 QUENSBURY
 SWANSEA WEST ING. PARK
 SWANSEA, SA3 4EB
 TEL: 01792 591241
 FAX: 01792 381015

TITLE: GENERAL LAYOUT
 DRAWN: TD
 DATE: 19.08.2013
 DRAWING NO.: 164E25-40000
 REV: E
 DRAWING SET: 8 - Layout 1 of 1

ELECTRICAL SPECIFICATIONS:
 ELECTRICALLY APPROVED BY:

UPDATED DRAWING REFERENCES
 UPDATED DEVICE LIST
 ADDITION OF DRAWING REFERENCES

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IF IN ANY DOUBT - ASK

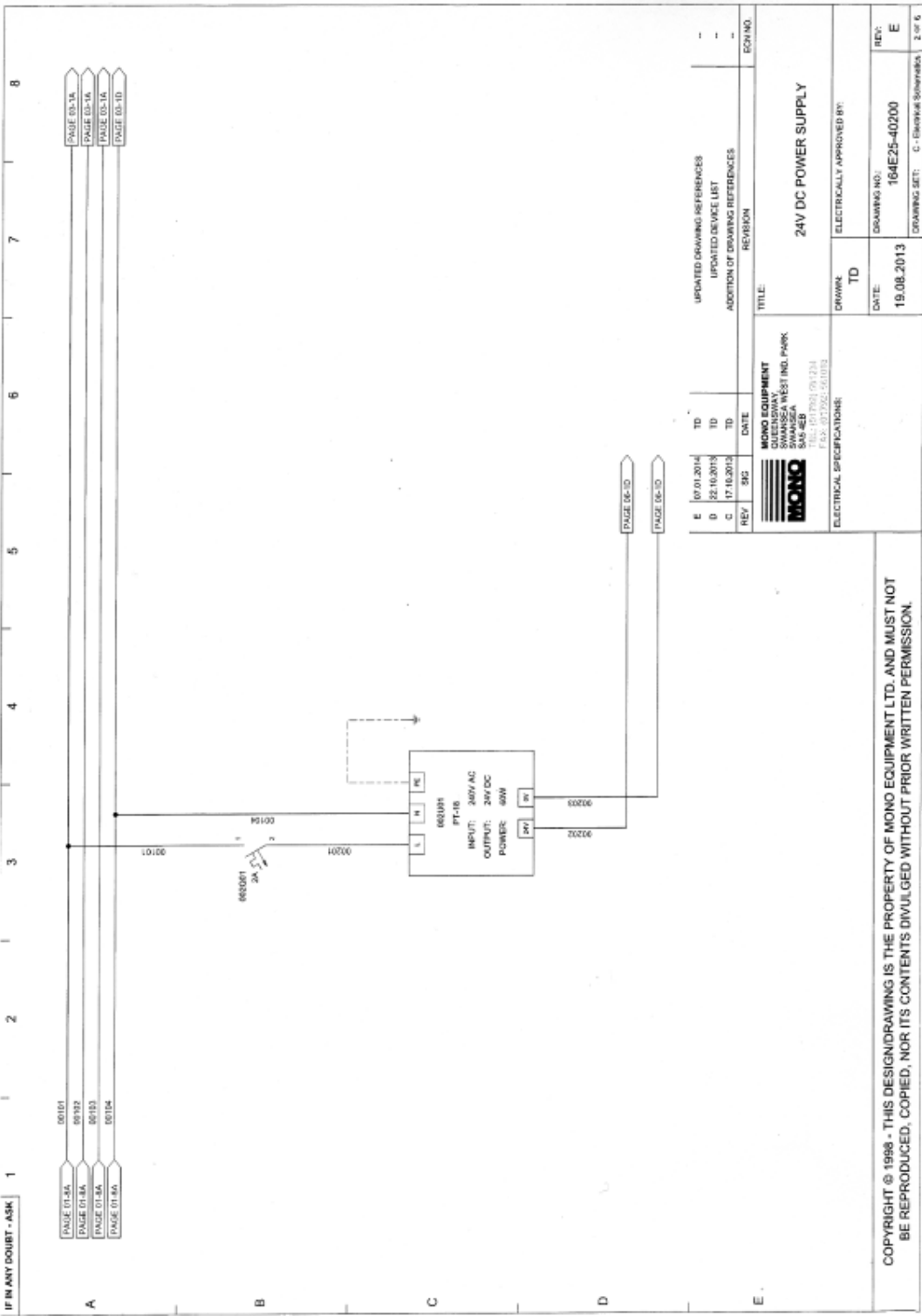
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PAGE 03-1A
PAGE 03-1A

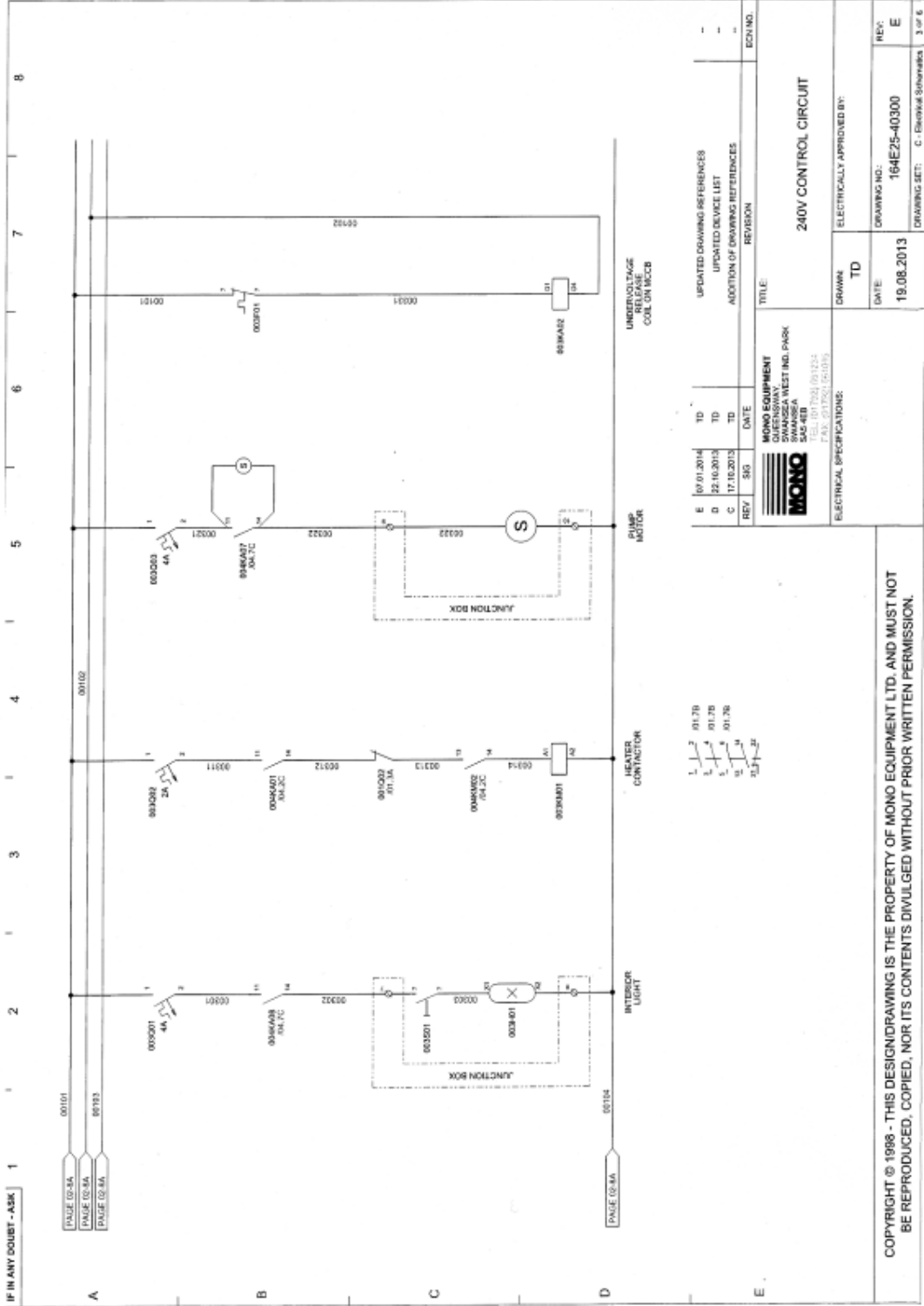
REV	NO	DATE	DESCRIPTION	EDN NO.
E	07/01/2014	TO	UPDATED DRAWING REFERENCES	-
D	22/03/2013	TO	UPDATED DEVICE LIST	-
C	17/03/2013	TO	ADDITION OF DRAWING REFERENCES	-

TITLE:	
MONO EQUIPMENT	POWER CIRCUIT
GASERDAWAY WEST IND. PARK	
SWANSEA	
SA5 4ES	
TEL: 01792 891231	
FAX: 01792 421015	

REV	NO	DATE	DESCRIPTION

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00101
PAGE 02-3A

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00103
PAGE 02-3A

REV	SIG	DATE	DESCRIPTION	ECN NO.
E		07/01/2014	UPDATED DRAWING REFERENCES	-
D		22-10-2013	UPDATED DEVICE LIST	-
C		17-10-2013	ADDITION OF DRAWING REFERENCES	-
			REVISION	

TITLE: 240V CONTROL CIRCUIT

MONO EQUIPMENT
 GARENSWAY
 SWANSEA WEST INDL PARK
 SWANSEA
 SA5 4EB
 TEL: 01792 891234
 FAX: 01792 891013

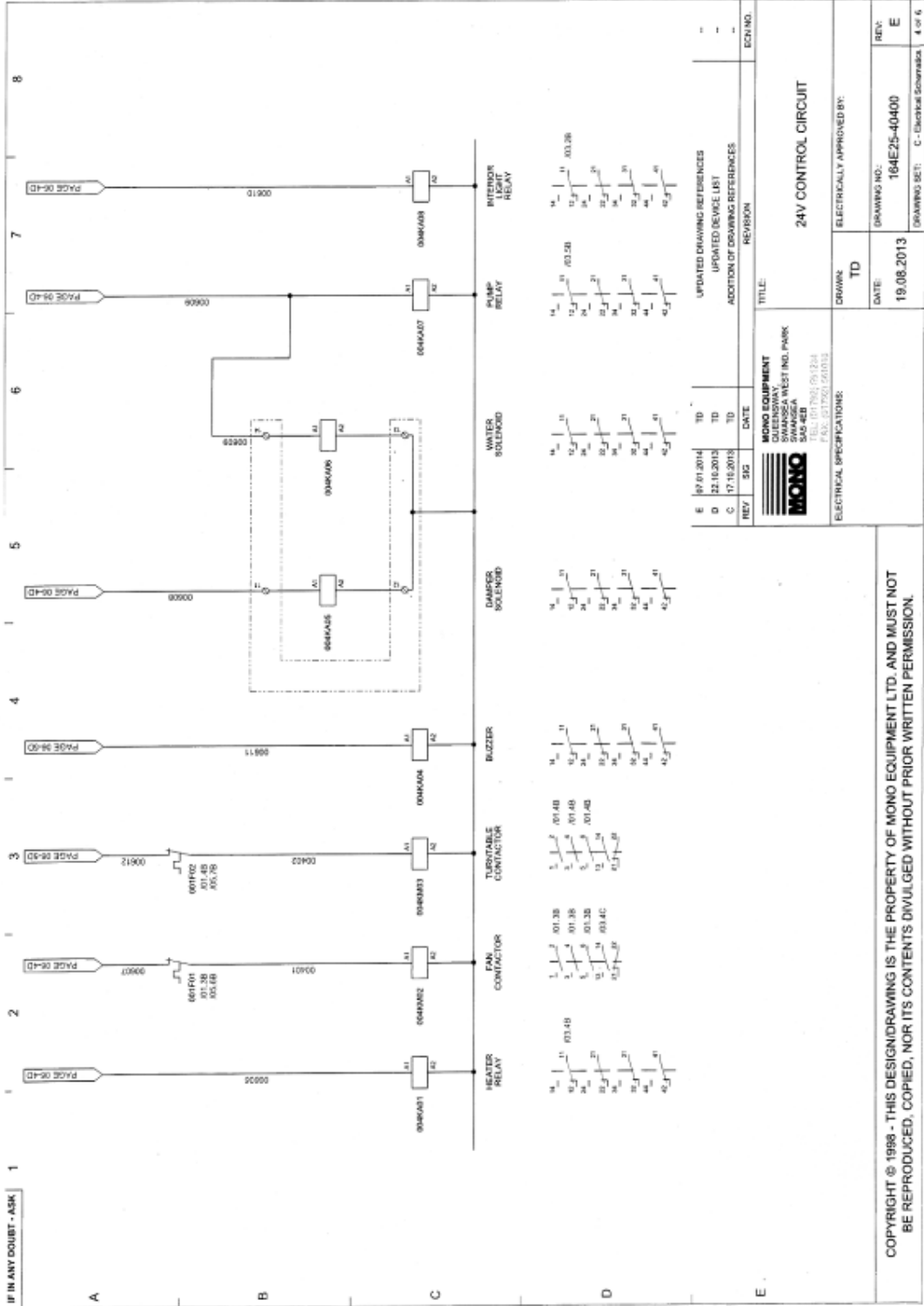
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DRAWN: TD
 ELECTRICALLY APPROVED BY:

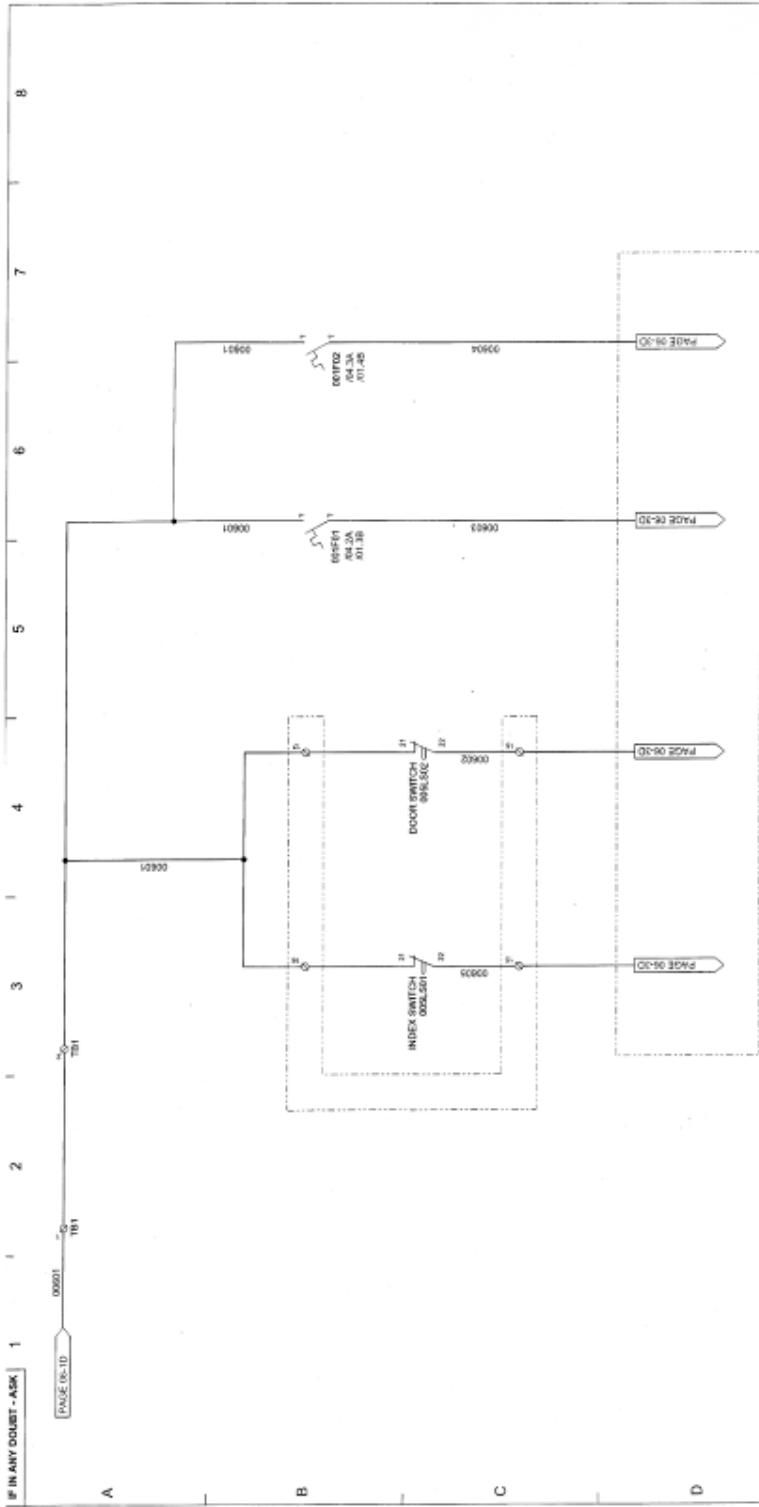
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8	01.78	

DATE: 19.08.2013
 DRAWING NO: 164E25-40300
 DRAWING SET: C - Electrical Schematics

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REV	NO	DATE	DESCRIPTION	CON NO.
E	01	10/2014	UPDATED DRAWING REFERENCES	-
D	02	10/2013	UPDATED DEVICE LIST	-
C	17	10/2013	ADDITION OF DRAWING REFERENCES	-
			REVISION	

<p>MONO EQUIPMENT</p> <p>DAENSWAY</p> <p>2700 WILSON WEST IND. PARK</p> <p>WINDSOR, ONTARIO</p> <p>M5G 4E8</p> <p>TEL: (905) 25-7344</p> <p>FAX: (905) 25-0173</p>	<p>TITLE:</p> <p>24V SAFETY CIRCUIT</p>
<p>ELECTRICAL SPECIFICATIONS</p>	<p>DRAWN BY:</p> <p>TD</p>
<p>DATE:</p> <p>19.08.2013</p>	<p>DRAWING NO.:</p> <p>164E25-40500</p>
<p>REVISION:</p>	<p>DRAWING SET:</p> <p>C - Electrical Schematics</p>

IF IN ANY DOUBT - ASK

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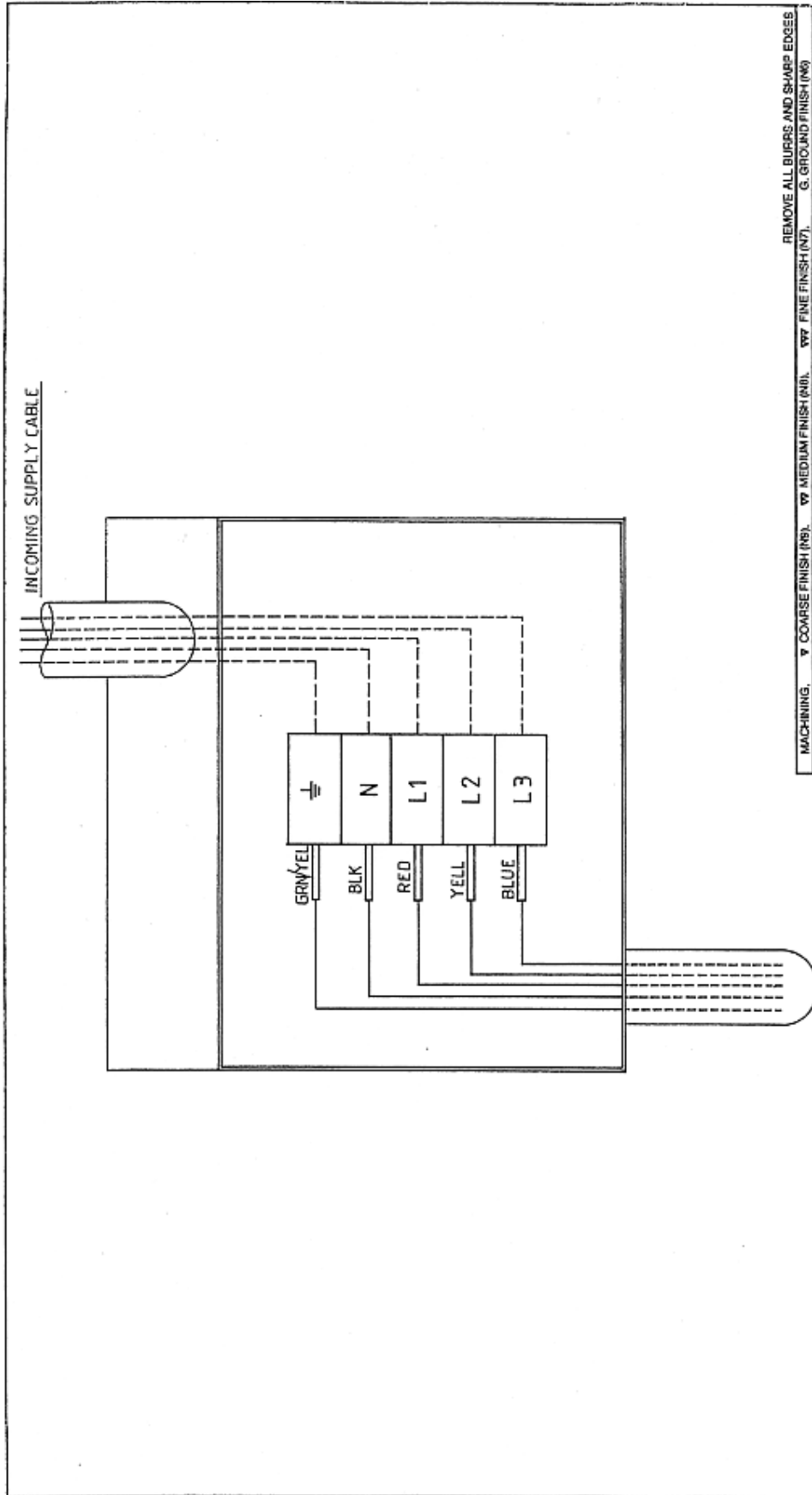
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16.0 ELECTRICS (WITH PUMP)



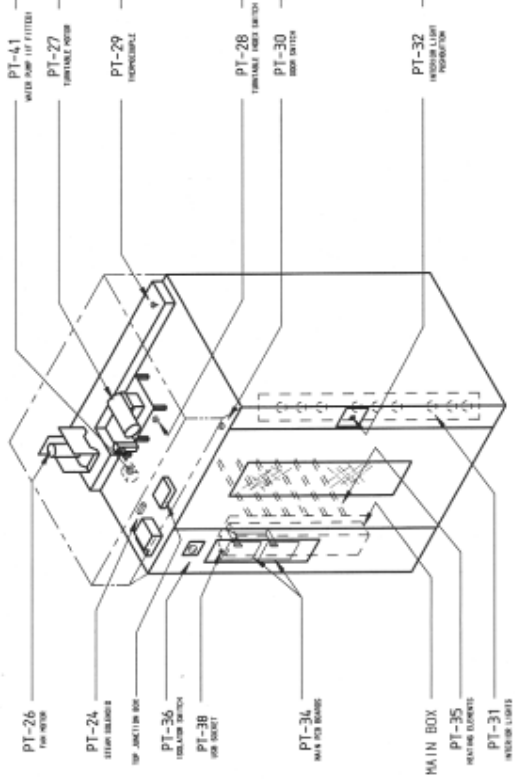
REMOVE ALL BURRS AND SHARP EDGES

MACHINING: ▽ COARSE FINISH (N6), ▽ MEDIUM FINISH (N7), ▽ FINE FINISH (N8)	G. GROUND FINISH (N6)
OPER. TOL. 150 & BELOW ± .5, OVER 150 ± 1.0	DECIMAL DIMS. 75 & BELOW ± .25, 75 TO 300 ± .4, 300 TO 600 ± .5, OVER 600 ± 1.0
Title: SUPPLY TERMINAL BOX CONNECTIONS	
No. Req'd: —	Drawn: PJC
Material: —	Date: 25-11-91
Finish: —	Scale: N.T.S.
Drawing No. 162-25-133-00	
Change	

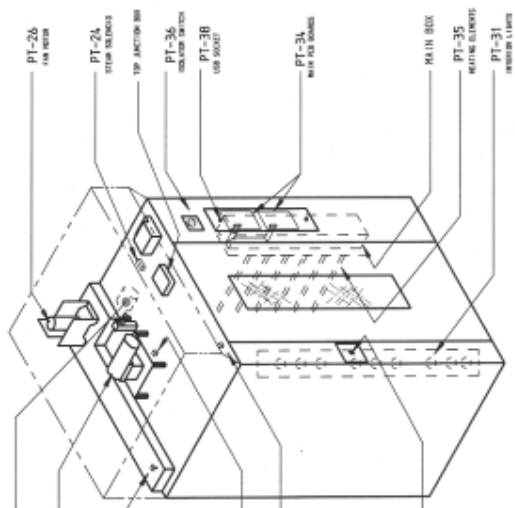
MONO EQUIPMENT LTD.
 SWANSEA INDUSTRIAL ESTATE
 FORESTFACH, SWANSEA, GWA. 483

IF IN ANY DOUBT - ASK

R.H. OVEN



L.H. OVEN




REV	SIG	DATE	REVISION	ECN NO.
<p>MONO EQUIPMENT QUEENSWAY WEST IND PARK SWANSEA SA5 4EB. TEL: (01782) 561234 FAX: (01782) 561016</p>				
<p>TITLE: MXT MAIN COMPONENTS LAYOUT</p>				
<p>DRAWN: J.C./RAC ELECTRICALLY APPROVED BY:-</p>				
<p>ELECTRICAL SPECIFICATIONS:- 4.15V 3PH 50Hz</p>				
<p>DATE: 23-03-12 DRAWING NO. M16AE25-36100 REV: 1 of 2</p>				

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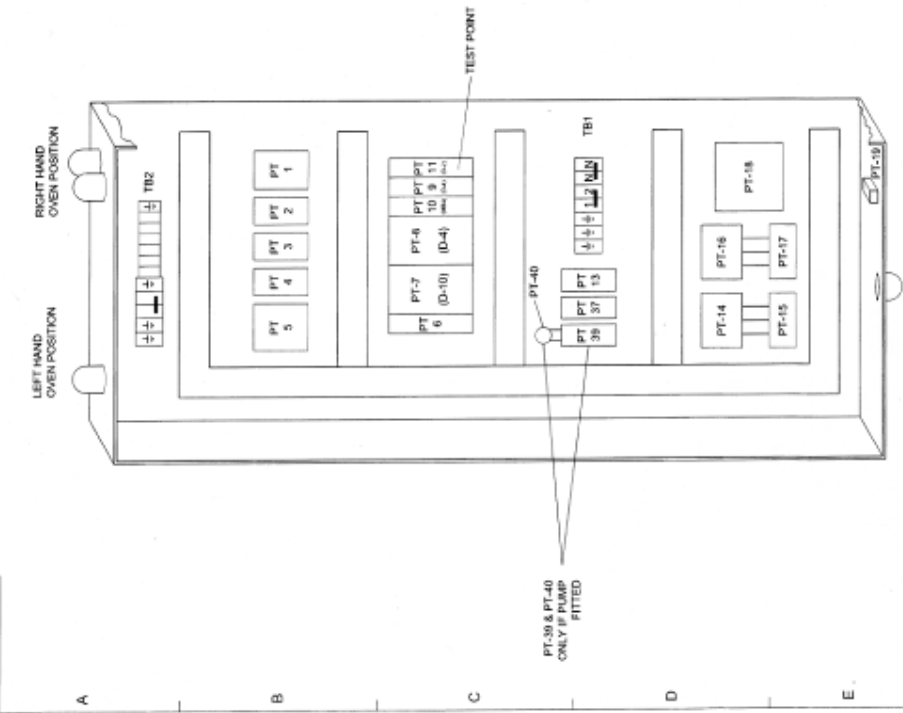
IF IN ANY DOUBT - ASK

DRAWING PT-Ref	DESCRIPTION	MONO PART NUMBER	DRAWING PT-Ref	DESCRIPTION	MONO PART NUMBER
PT-1	OVERHEAT THERMOSTAT	8873-30-015	PT-31A	INTERIOR LIGHT HOLDER.	8721-67-011
PT-2	HEATING ELEMENT MCB.	8872-22-074	PT-31B	INTERIOR LIGHT BULB.	8857-94-007
PT-3	HEATING ELEMENT MCB.	8872-22-074	PT-32A	INTERIOR LIGHT PUSHBUTTON.	8801-12-022
PT-4	HEATING ELEMENT MCB.	8872-22-074	PT-32B	INTERIOR LIGHT PUSHBUTTON CONTACT BLOCK	8801-14-005
PT-5	HEATING ELEMENT CONTACTOR	8801-08-032	PT-32C	INTERIOR LIGHT PUSHBUTTON ENCLOSURE.	8801-09-011
PT-6	MAIN FAN MOTOR MCB AUXILIARY CONTACT	8872-07-004	PT-32D	INTERIOR LIGHT PUSHBUTTON LEGEND.	8801-15-024
PT-7	MAIN FAN MOTOR MCB.	8872-22-054	PT-34	PCB ASSY	158-25-80000
PT-8	TURNABLE MOTOR MCB.	8872-22-052	PT-35	HEATING ELEMENT.	8979-04-001
PT-9	INTERIOR LIGHT MCB..	8872-22-003	PT-36A	MOULDED CASE CIRCUIT BREAKER.	8872-22-078
PT-10	PUMP MOTOR MCB.	8872-22-062	PT-36B	UNDERVOLTAGE RELEASE COIL.	8872-02-002
PT-11	CONTROL MOTOR MCB.	8872-22-061	PT-36C	DOOR HANDLE AND SHAFT.	8872-19-001
PT-13A	INTERIOR LIGHT RELAY.	8801-37-001	PT-37A	HEATER CONTACTOR RELAY.	8801-37-001
PT-13B	INTERIOR LIGHT RELAY BASE.	8801-36-001	PT-37B	HEATER CONTACTOR RELAY BASE.	8801-36-001
PT-14	MAIN FAN MOTOR CONTACTOR.	8801-08-031	PT-38	USB CABLE	8705-25-009
PT-15	MAIN FAN MOTOR THERMAL OVERLOAD.	8801-01-042	PT-39a	PUMP RELAY (IF PUMP FITTED)	8801-37-001
PT-16	TURNABLE MOTOR CONTACTOR.	8801-08-031	PT-39b	PUMP RELAY BASE (IF PUMP FITTED).	8801-36-001
PT-17	TURNABLE MOTOR THERMAL OVERLOAD.	8801-01-041	PT-40	SUPPRESSOR UNIT (IF PUMP FITTED).	8842-48-010
PT-18	24V DC POWER SUPPLY.	8801-93-005	PT-41	WATER PUMP (IF FITTED).	A900-28-005
PT-19	BUZZER (OPTION)	8723-92-002	PT-42	SPEAKER	8842-92-005
PT-24	STEAM SOLENOID.	8965-83-004			
PT-25	DAMPER SOLENOID.	8998-83-005			
PT-26	MAIN FAN MOTOR.	8859-74-024			
PT-27	TURNABLE MOTOR UNIT.	8912-74-009			
PT-28A	TURNABLE INDEX SWITCH BODY.	8801-11-013			
PT-28B	TURNABLE INDEX SWITCH HEAD.	8801-45-003			
PT-28C	TURNABLE INDEX SWITCH ACTUATOR.	8801-45-004			
PT-29	THERMOCOUPLE.	8709-95-001			
PT-30A	DOOR SWITCH BODY.	8801-11-013			
PT-30B	DOOR SWITCH HEAD.	8801-45-003			
PT-30C	DOOR SWITCH ACTUATOR.	8801-45-004			

REV	SIG	DATE	REVISION	ECN NO.
 MONO EQUIPMENT SWINLEY WEST IND PARK SWANSEA, SA3 4ER. TEL: (01792) 661234 FAX: (01792) 661016				
ELECTRICAL SPECIFICATIONS:-			TITLE: COMPONENT PART LIST FOR HKT COLOURSMART OVEN	
DRAWN: JC/RAC			ELECTRICALLY APPROVED BY:-	
DATE: 26-03-12			DRAWING NO. M164E25-36100	
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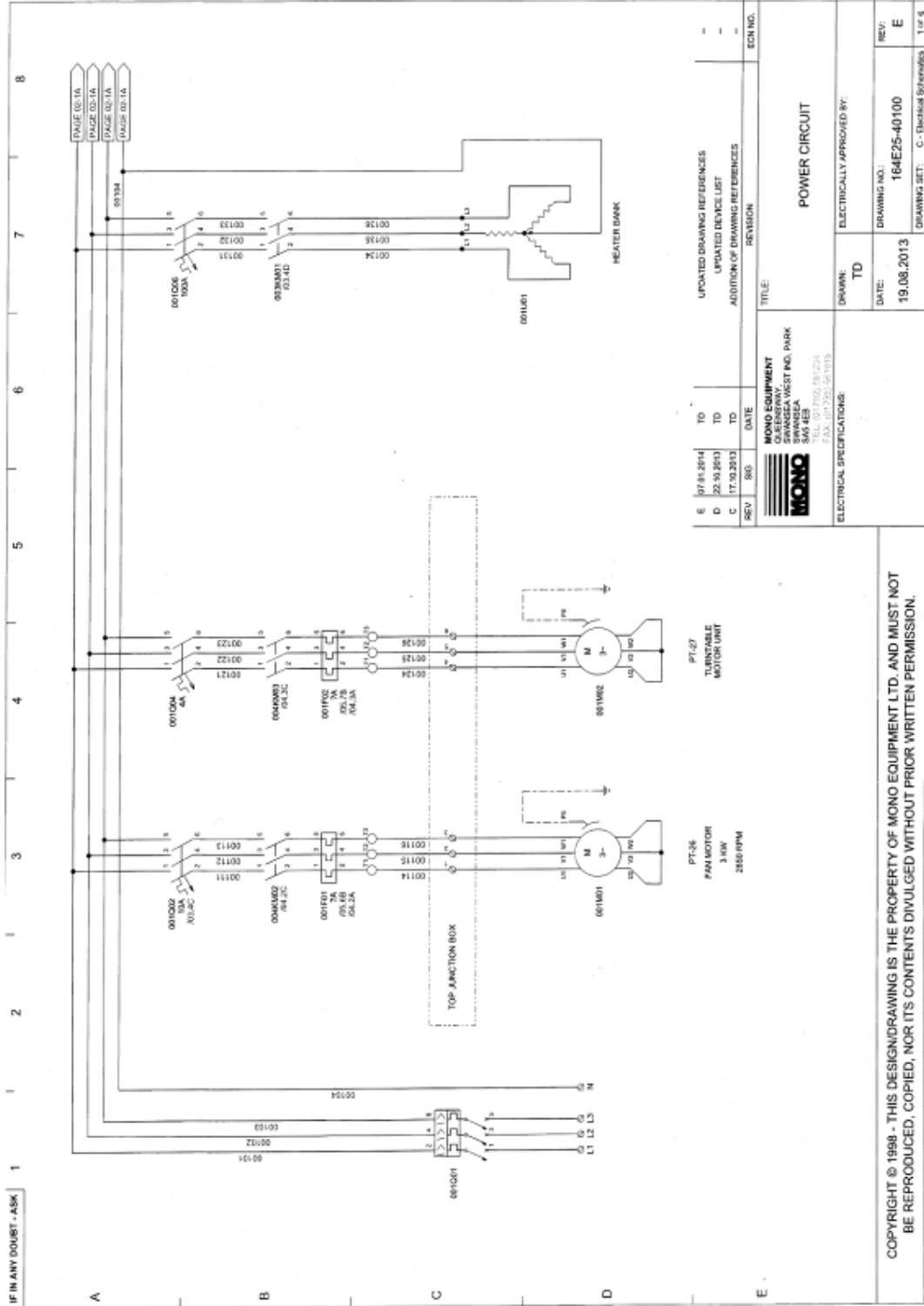
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PART REFERENCE	BRIDGE ID	DESCRIPTION	PART NUMBER	MONO Part Number
PT-1	001016	Overheat Thermocouple	18487	8873-30-515
PT-2	001016	Heating Element MCB	18487	8873-22-024
PT-3	001016	Heating Element MCB	18487	8873-22-024
PT-4	001016	Heating Element MCB	18487	8873-22-024
PT-5	0030063	Heating Element Controller	LC100A07	8863-06-012
PT-6	001002	Main Fan Motor MCB Auxiliary Contact	AW6A0614	8872-07-004
PT-7	001004	Main Fan Motor MCB	AW5A3139	8872-21-654
PT-8	001004	Turbidimeter Motor MCB	AW5A3164	8872-22-003
PT-9	001001	Interior Light MCB	AW5A3164	8872-21-682
PT-10	003000	Pump Motor MCB	AW5A3102	8872-21-682
PT-11	003000	Control Motor MCB	AW5A3102	8872-21-682
PT-12	004002	Interior Light Relay	LC100008	8801-28-003
PT-13	004002	Main Fan Motor Controller	LC100008	8801-28-003
PT-14	001001	Main Fan Motor Thermal Overload	180112	8802-01-042
PT-15	004002	Turbidimeter Motor Controller	LC100008	8801-28-003
PT-16	001002	Turbidimeter Motor Thermal Overload	180106	8801-01-043
PT-17	001001	JAY DC Power Supply	AW134824015	8801-91-005
PT-18	001001	Barrier (Optional)	8723-02-003	8723-02-003
PT-19	001001	Steam Solenoid	8955-81-004	8955-81-004
PT-20	001001	Strainer Assembly	187100	8955-81-005
PT-21	001001	Strainer Motor Unit	187100	8955-81-005
PT-22	001001	Turbidimeter Motor Unit	200005	8955-81-005
PT-23	001001	Turbidimeter Motor Switch Body	200005	8801-11-013
PT-24	001001	Turbidimeter Motor Switch Head	200005	8801-11-013
PT-25	001001	Turbidimeter Motor Switch Actuator	200005	8801-11-013
PT-26	001001	Thermocouple	AW6A0614	8709-91-001
PT-27	001001	Door Switch Body	ZU0005_10010129	8801-11-013
PT-28	001001	Door Switch Head	ZU0005_10010129	8801-11-013
PT-29	001001	Door Switch Indicator	8. ZU0113	8801-45-003
PT-30	001001	Interior Light Switch	8. ZU0113	8801-45-003
PT-31	001001	Interior Light Switch	8. ZU0113	8801-45-003
PT-32	001001	Interior Light Switch	8. ZU0113	8801-45-003
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PT-35	001001	Interior Light Switch	8. ZU0113	8801-45-003
PT-36	001001	Interior Light Switch	8. ZU0113	8801-45-003
PT-37	001001	Interior Light Switch	8. ZU0113	8801-45-003
PT-38	001001	Interior Light Switch	8. ZU0113	8801-45-003
PT-39	001001	Interior Light Switch	8. ZU0113	8801-45-003
PT-40	001001	Interior Light Switch	8. ZU0113	8801-45-003
PT-41	001001	Interior Light Switch	8. ZU0113	8801-45-003
PT-42	001001	Interior Light Switch	8. ZU0113	8801-45-003



E 10/01/2014 TD D 12/19/2013 TD C 17/10/2012 TD		UPDATED DRAWING REFERENCES UPDATED DEVICE LIST ADDITION OF DRAWING REFERENCES		ECN NO. -
REV	8/0	DATE	REVISION	ECN NO.
MONO EQUIPMENT QUENNSWAY SWANSEA WEST ING. PARK SWANSEA SA4 4EB TEL: 01792 691241 FAX: 01792 381015		TITLE: GENERAL LAYOUT		DRAWN: TD
ELECTRICAL SPECIFICATIONS:		ELECTRICALLY APPROVED BY:		REV: E
DATE: 19.08.2013		DRAWING NO.: 164E25-40000		1 OF 1
DRAWING SET:		B - Layout		

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PAGE 00-1A

REV	NO	DATE	DESCRIPTION	ECN NO.
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D	22.03.2013	TD	UPDATED DEVICE LIST	-
C	17.03.2013	TD	ADDITION OF DRAWING REFERENCES	-
			REVISION	

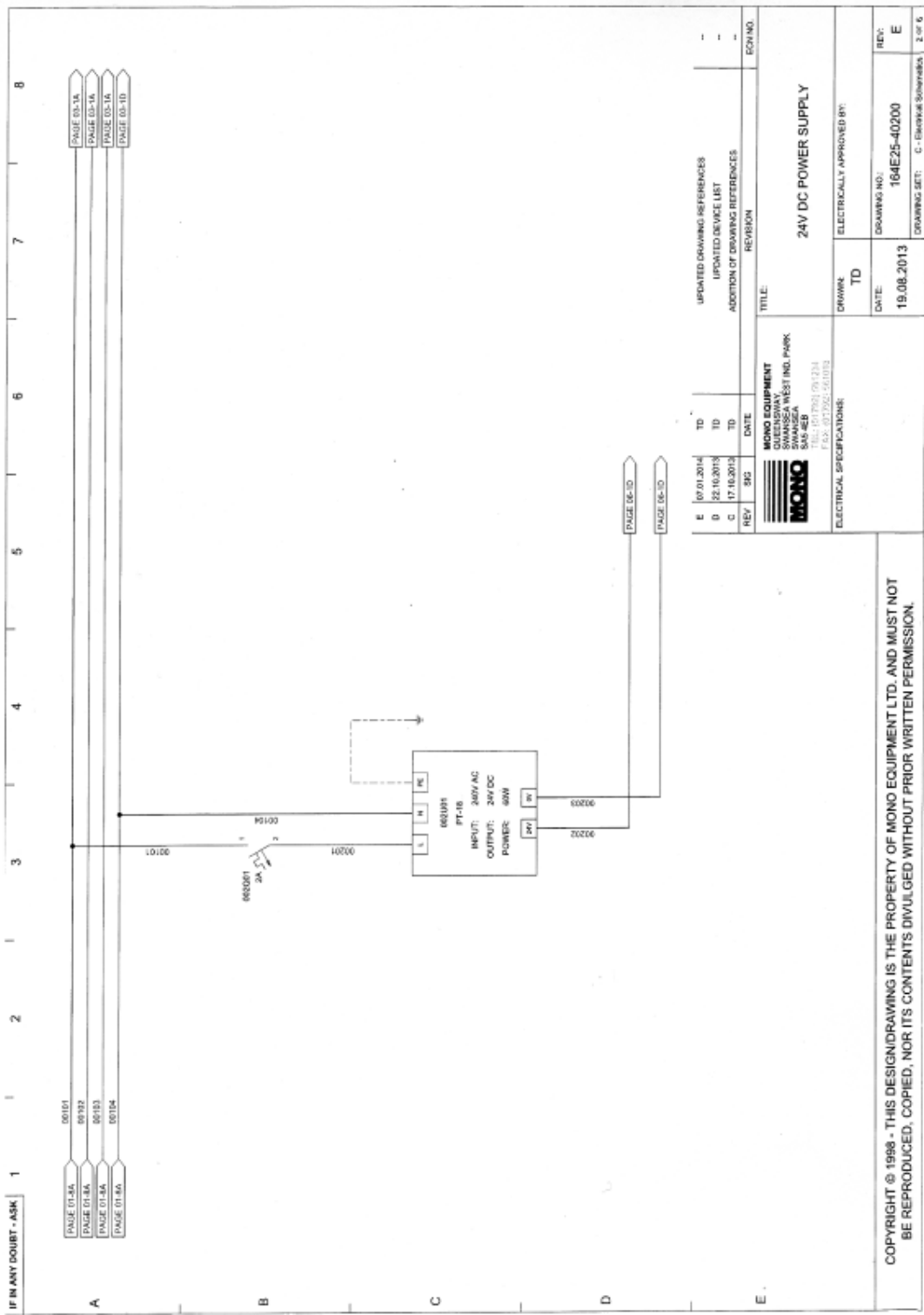
MONO EQUIPMENT
 QUENENWAY
 SWANSEA WEST IND. PARK
 SWANSEA
 SA5 4ES
 TEL: 01792 851231
 FAX: 01792 851013

TITLE:
POWER CIRCUIT

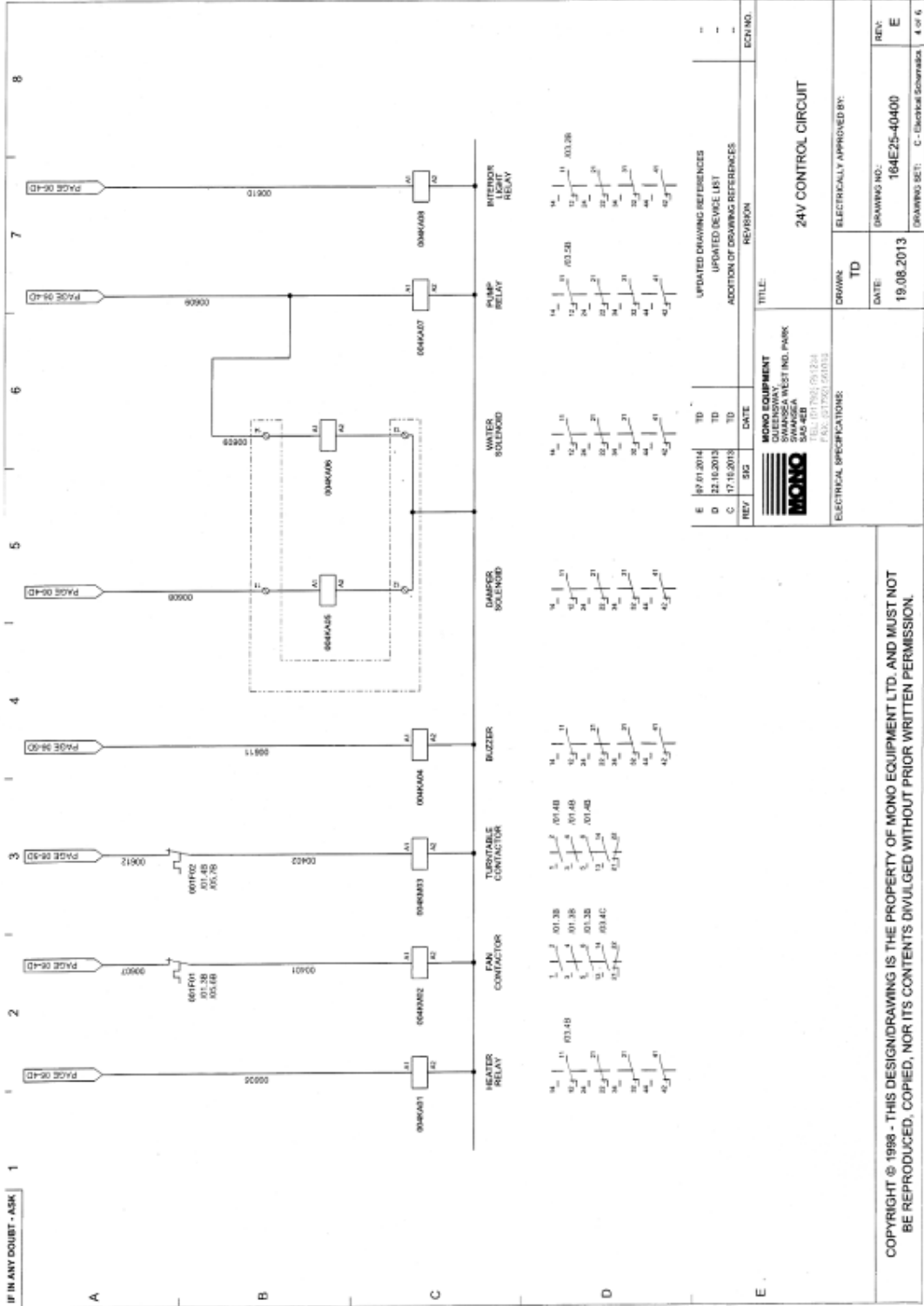
ELECTRICALLY APPROVED BY:
DRAWN: TD

DATE: 19.08.2013
DRAWING NO.: 16AE25-40100
REV: E
DRAWING SET: C - Electrical Schematics 1 of 4

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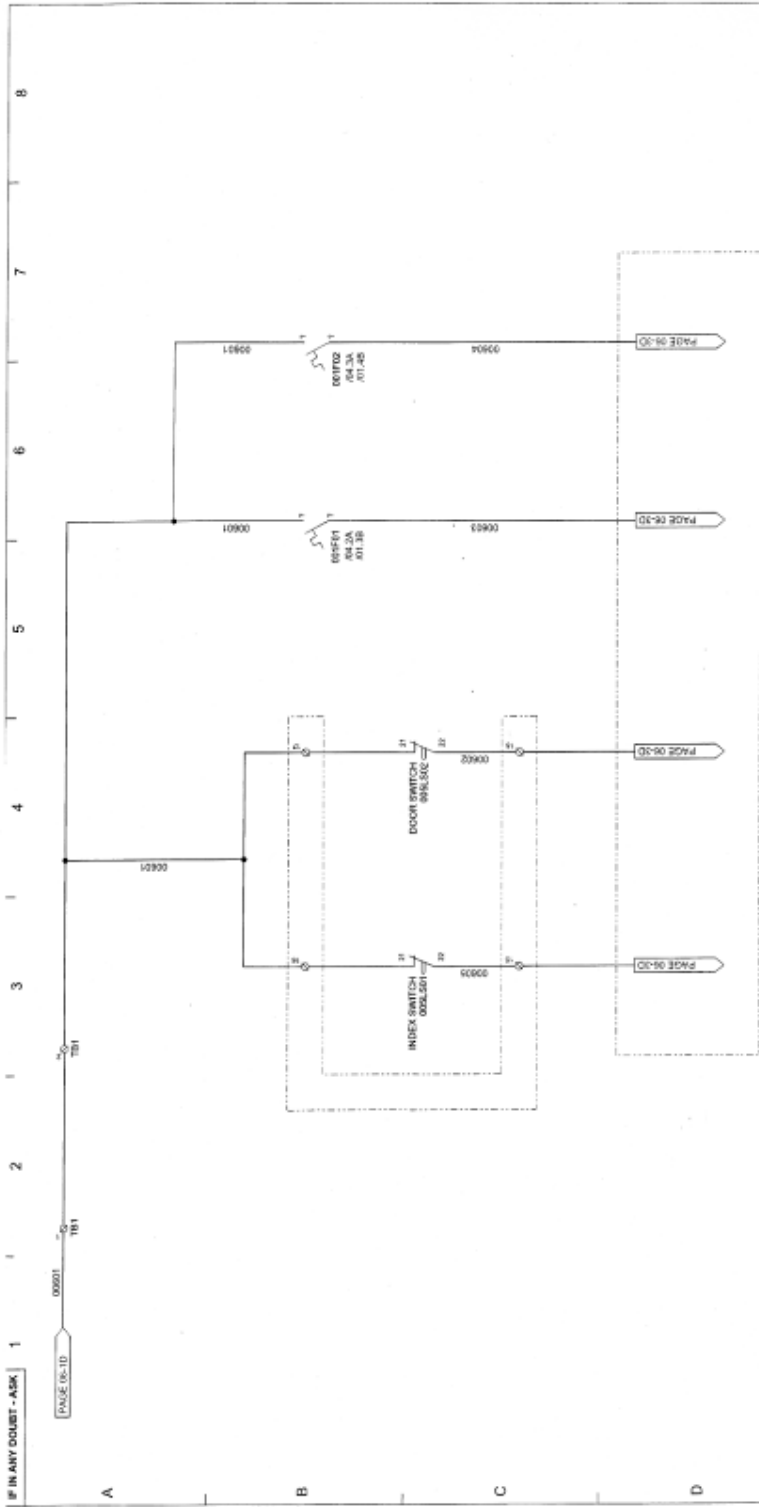
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REV	SIG	DATE	TD	DESCRIPTION	ECN NO.
E		19.01.2014	TD	UPDATED DRAWING REFERENCES	-
D		22.10.2013	TD	UPDATED DEVICE LIST	-
C		17.10.2013	TD	ADDITION OF DRAWING REFERENCES	-

MONO EQUIPMENT QUEENSWAY SHANNON WEST INDUSTRIAL PARK SHANNONGA 540-4EB TEL: (01793) 931244 FAX: (01793) 931013		TITLE: 24V CONTROL CIRCUIT
ELECTRICAL SPECIFICATIONS: TD		ELECTRICALLY APPROVED BY: TD
DATE: 19.08.2013		DRAWING NO.: 164E25-40400
REV:		DRAWING SET: C - Electrical Schematics
4 OF 6		REV: E

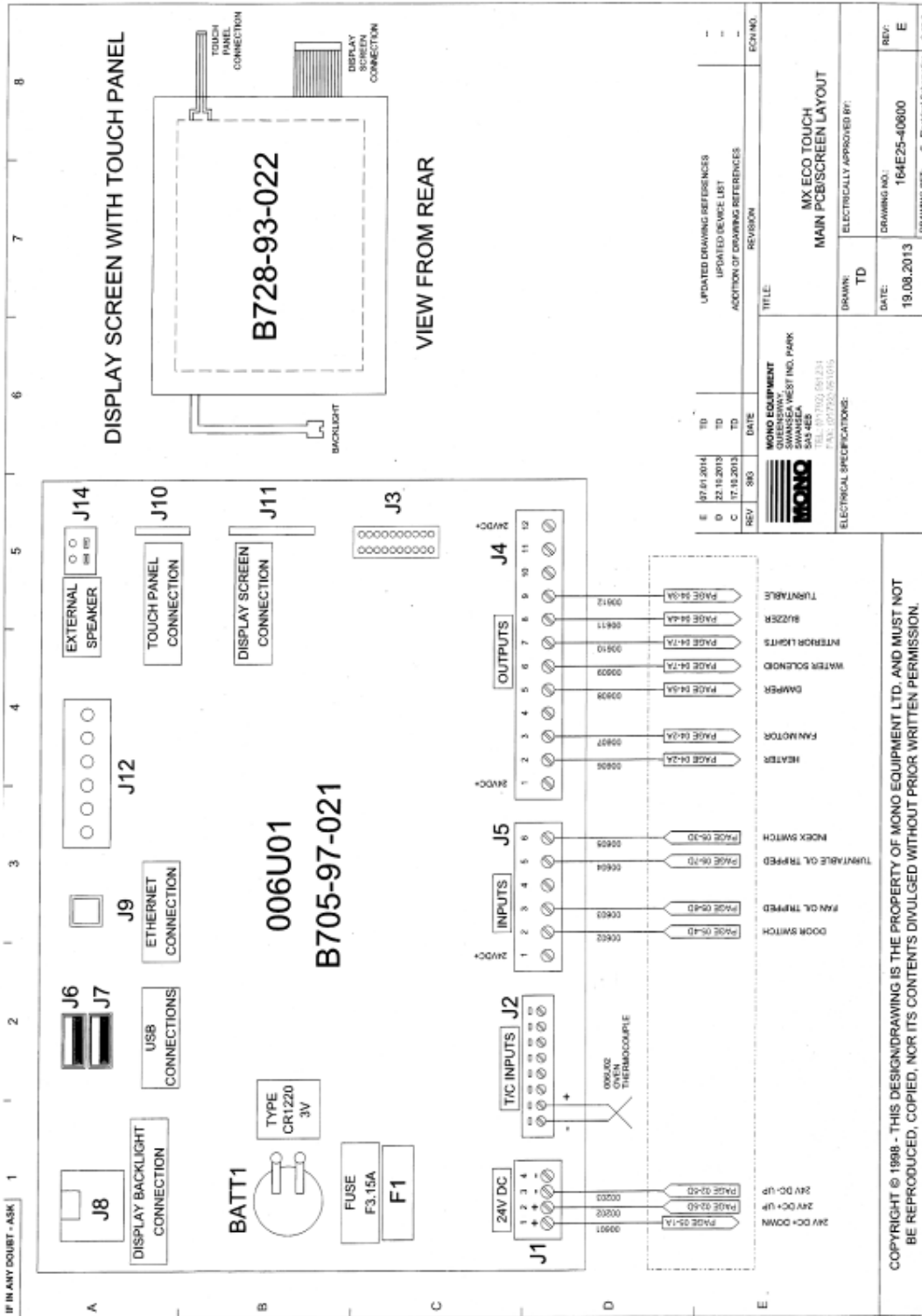
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REV	NO	DATE	DESCRIPTION	CON NO.
E	01	10.2014	UPDATED DRAWING REFERENCES	-
D	02	10.2013	UPDATED DEVICE LIST	-
C	01	10.2013	ADDITION OF DRAWING REFERENCES	-

<p>MONO EQUIPMENT</p> <p>DAENSWAY 2700 WILSON WEST IND. PARK WILSON, INDIANAPOLIS 46063-1400 TEL: (317) 525-7244 FAX: (317) 525-0113</p>	<p>TITLE:</p> <p>24V SAFETY CIRCUIT</p>
<p>ELECTRICAL SPECIFICATIONS</p>	<p>DRAWN BY: TD</p>
<p>DATE: 19.08.2013</p>	<p>DRAWING NO.: 164E25-40500</p>
<p>REVISION</p>	<p>REV: E</p>
<p>REVISION</p>	<p>DRAWING SET: C - Electrical Schematics</p>
<p>5 of 6</p>	<p>5 of 6</p>

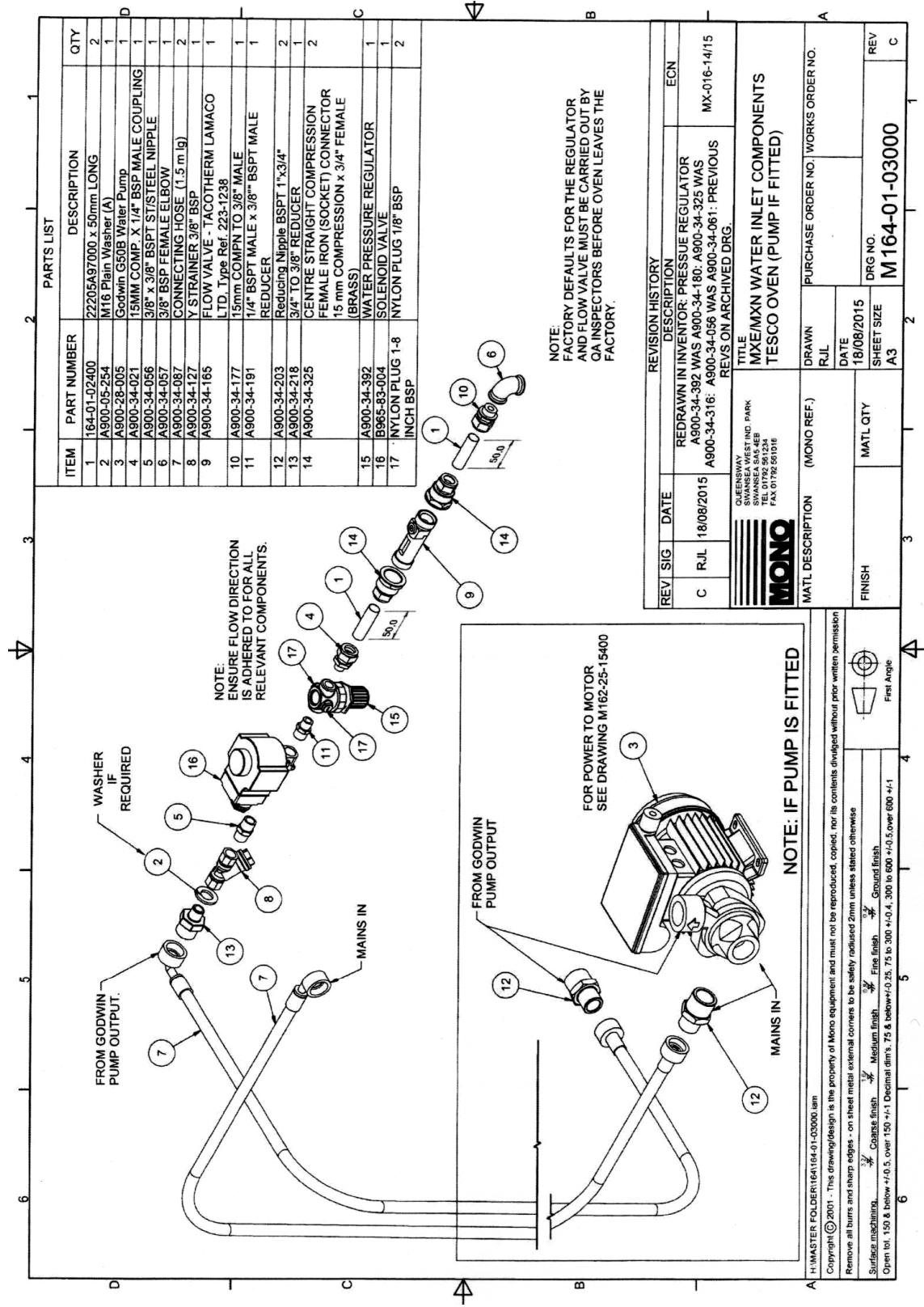
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REV	REV	DATE	DESCRIPTION	ECN NO.
E	10	10/01/2014	UPDATED DRAWING REFERENCES	-
D	10	02/15/2013	UPDATED DEVICE LIST	-
C	10	17/11/2013	ADDITION OF DRAWING REFERENCES	-

MONO EQUIPMENT GURSESWAY SWANSEA WEST IND. PARK SWANSEA SA3 4EB TEL: 01792 891234 FAX: 01792 851045	TITLE: MX ECO TOUCH MAIN PCB/SCREEN LAYOUT	ELECTRICALLY APPROVED BY: TD
DATE: 19.08.2013	DRAWING NO.: 164E25-40600	REV.: E
DRAWING SET: C - Electrical Schematics		SHEET NO.: 6 OF 6



PARTS LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	164-01-02400	22205A97000 x 50mm LONG	2
2	A900-05-254	M16 Plain Washer (A)	1
3	A900-28-005	Godwin G50B Water Pump	1
4	A900-34-021	15MM COMP. X 1/4" BSP MALE COUPLING	1
5	A900-34-056	3/8" x 3/8" BSP ST/STEEL NIPPLE	1
6	A900-34-057	3/8" BSP FEMALE ELBOW	1
7	A900-34-087	CONNECTING HOSE (1.5 m lg)	2
8	A900-34-127	Y STRAINER 3/8" BSP	1
9	A900-34-165	FLOW VALVE - TACOTHERM LAMACO LTD. Type Ref. 223-1238	1
10	A900-34-177	15mm COMPN TO 3/8" MALE	1
11	A900-34-191	1/4" BSPPT MALE x 3/8" BSPPT MALE REDUCER	1
12	A900-34-203	Reducing Nipple BSPT 1"x3/4"	2
13	A900-34-218	3/4" TO 3/8" REDUCER	1
14	A900-34-325	CENTRE STRAIGHT COMPRESSION FEMALE IRON (SOCKET) CONNECTOR 15 mm COMPRESSION x 3/4" FEMALE (BRASS)	2
15	A900-34-392	WATER PRESSURE REGULATOR	1
16	B965-85-004	SOLENOID VALVE	1
17	NYLON PLUG 1-8 INCH BSP	NYLON PLUG 1/8" BSP	2

NOTE:
FACTORY DEFAULTS FOR THE REGULATOR
AND FLOW VALVE MUST BE CARRIED OUT BY
QA INSPECTORS BEFORE OVEN LEAVES THE
FACTORY.

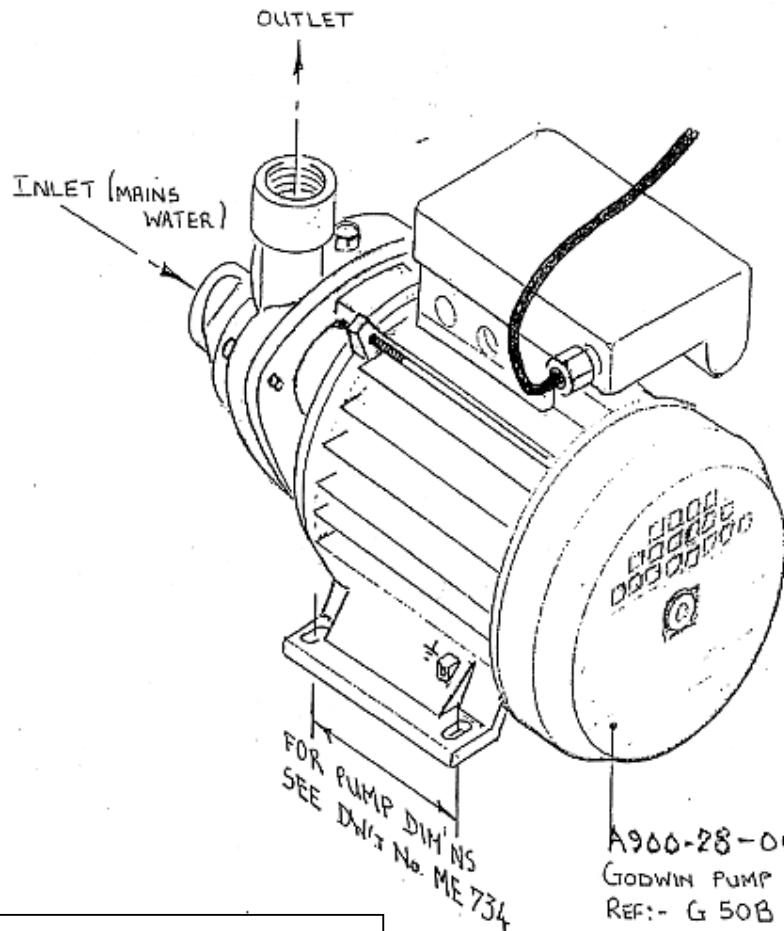
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C	RJL	18/08/2015	REDRAWN IN INVENTOR: PRESSURE REGULATOR A900-34-392 WAS A900-34-180: A900-34-325 WAS A900-34-316: A900-34-056 WAS A900-34-061: PREVIOUS REVS ON ARCHIVED DRG.		MX-016-14/15

		QUEENSWAY SWANSEA WEST IND. PARK SWANSEA SA4 4EB TEL 01792 591016 FAX 01792 591016	
MATL DESCRIPTION (MONO REF.)		DRAWN PURCHASE ORDER NO./WORKS ORDER NO.	
FINISH		DATE	
MATL QTY		SHEET SIZE	
DRG NO.		REV	
M 164-01-03000		C	

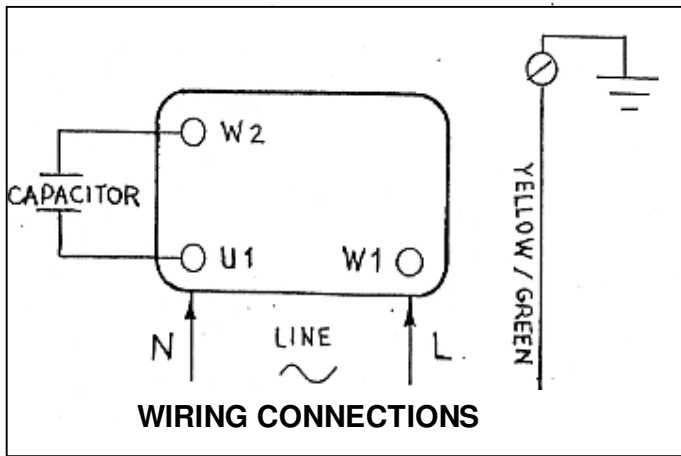
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Surface finishing:
 Open dt. 150 & below +0.5, over 150 +0.1
 Coarse finish
 Medium finish
 Fine finish
 Ground finish

First Angle



A900-28-005
 GODWIN PUMP
 REF:- G 50B
 0.5 HP
 240V-50Hz-1PH
 2850 RPM 2.4 AMPS



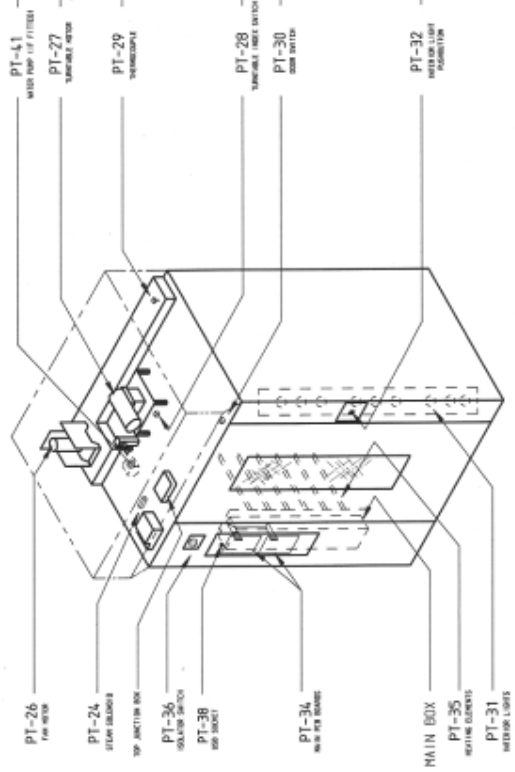
WATER PUMP (GODWIN) DIAGRAM
 (IF FITTED)



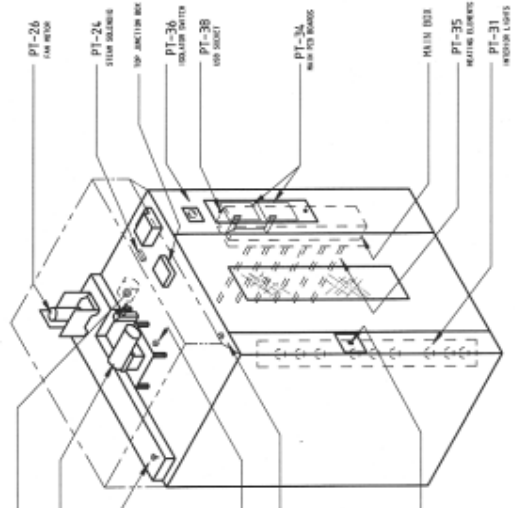
17.0 SPARES

IF IN ANY DOUBT - ASK

R.H. OVEN



L.H. OVEN



REV	SIG	DATE	REVISION	ECN NO.
<p>MONO EQUIPMENT 1005 SWANSEA SWANSEA WEST IND PARK SWANSEA, SAG 4EB. TEL: (01792) 861234 FAX: (01792) 861010</p>				
ELECTRICAL SPECIFICATIONS:-			TITLE:	
4.15V 3PH 50Hz			MXT MAIN COMPONENTS LAYOUT	
DRAWN: JC/RAC			ELECTRICALLY APPROVED BY:-	
DATE: 23-03-12			DRAWING NO. SHIT 1 of 2	
			M164E25-36100	
			REV: _____	


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IF IN ANY DOUBT - ASK

DRAWING		DESCRIPTION		MONO	
PT-Ref				PART NUMBER	MONO PART NUMBER
PT-1	OVERHEAT THERMOSTAT			8873-30-015	8721-67-011
PT-2	HEATING ELEMENT MCB.			8872-22-074	8857-94-007
PT-3	HEATING ELEMENT MCB.			8872-22-074	8801-12-022
PT-4	HEATING ELEMENT MCB.			8872-22-074	8801-14-005
PT-5	HEATING ELEMENT CONTACTOR			8801-08-032	8801-09-011
PT-6	MAIN FAN MOTOR MCB AUXILIARY CONTACT			8872-07-004	8801-15-024
PT-7	MAIN FAN MOTOR MCB.			8872-22-054	158-25-80000
PT-8	TURNTABLE MOTOR MCB.			8872-22-052	8979-04-001
PT-9	INTERIOR LIGHT MCB..			8872-22-003	8872-22-078
PT-10	PUMP MOTOR MCB.			8872-22-062	8872-02-002
PT-11	CONTROL MOTOR MCB.			8872-22-061	8872-19-001
PT-13A	INTERIOR LIGHT RELAY.			8801-37-001	8801-37-001
PT-13B	INTERIOR LIGHT RELAY BASE.			8801-36-001	8801-36-001
PT-14	MAIN FAN MOTOR CONTACTOR.			8801-08-031	8705-25-009
PT-15	MAIN FAN MOTOR THERMAL OVERLOAD.			8801-01-042	8801-37-001
PT-16	TURNTABLE MOTOR CONTACTOR.			8801-08-031	8705-25-009
PT-17	TURNTABLE MOTOR THERMAL OVERLOAD.			8801-01-041	8801-37-001
PT-18	24V DC POWER SUPPLY.			8801-93-005	8801-36-001
PT-19	BUZZER (OPTION)			8723-92-002	8842-48-010
PT-24	STEAM SOLENOID.			8965-83-004	A900-28-005
PT-25	DAMPER SOLENOID.			8998-83-005	8842-92-005
PT-26	MAIN FAN MOTOR.			8859-74-024	
PT-27	TURNTABLE MOTOR UNIT.			8912-74-009	
PT-28A	TURNTABLE INDEX SWITCH BODY.			8801-11-013	
PT-28B	TURNTABLE INDEX SWITCH HEAD.			8801-45-003	
PT-28C	TURNTABLE INDEX SWITCH ACTUATOR.			8801-45-004	
PT-29	THERMOCOUPLE.			8709-95-001	
PT-30A	DOOR SWITCH BODY.			8801-11-013	
PT-30B	DOOR SWITCH HEAD.			8801-45-003	
PT-30C	DOOR SWITCH ACTUATOR.			8801-45-004	

DRAWING	DESCRIPTION	MONO
PT-Ref		PART NUMBER
PT-31A	INTERIOR LIGHT HOLDER.	
PT-31B	INTERIOR LIGHT BULB.	
PT-32A	INTERIOR LIGHT PUSHBUTTON.	
PT-32B	INTERIOR LIGHT PUSHBUTTON CONTACT BLOCK	
PT-32C	INTERIOR LIGHT PUSHBUTTON ENCLOSURE.	
PT-32D	INTERIOR LIGHT PUSHBUTTON LEGEND.	
PT-34	PCB ASSY	
PT-35	HEATING ELEMENT.	
PT-36A	MOULDED CASE CIRCUIT BREAKER.	
PT-36B	UNDervOLTAGE RELEASE COIL.	
PT-36C	DOOR HANDLE AND SHAFT.	
PT-37A	HEATER CONTACTOR RELAY.	
PT-37B	HEATER CONTACTOR RELAY BASE.	
PT-38	USB CABLE	
PT-39a	PUMP RELAY (IF PUMP FITTED)	
PT-39b	PUMP RELAY BASE (IF PUMP FITTED).	
PT-40	SUPPRESSOR UNIT (IF PUMP FITTED).	
PT-41	WATER PUMP (IF FITTED).	
PT-42	SPEAKER	

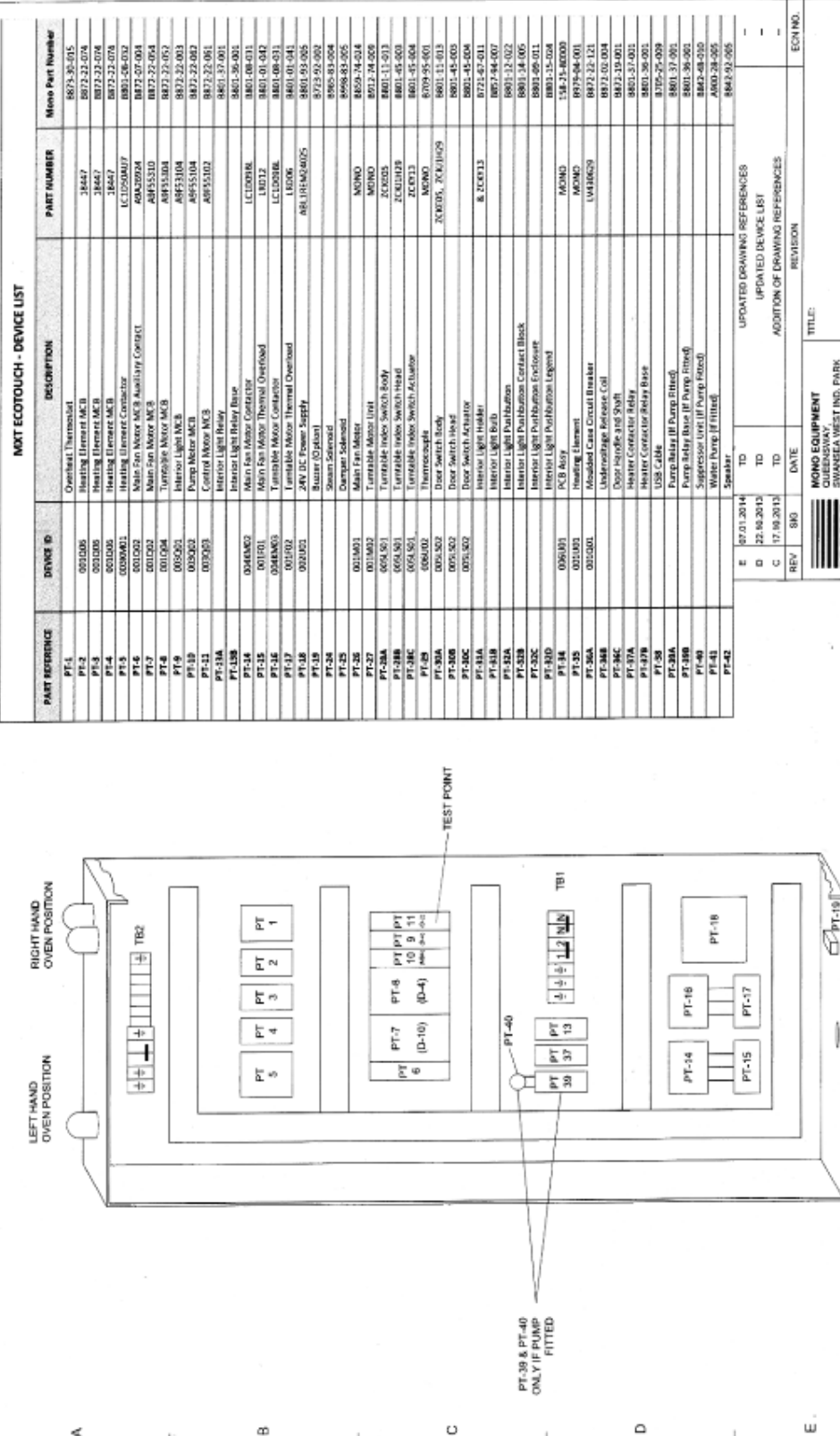
REV	SIG	DATE	REVISION	ECN NO.

 MONO EQUIPMENT QUEENSLAND SWANSEA WEST IND PARK SWANSEA, QLS 4000. TEL: (07) 5521 561234 FAX: (07) 5521 561016	TITLE COMPONENT PART LIST FOR HXT COLOURSMART OVEN
---	--

ELECTRICAL SPECIFICATIONS:- DRAWN: JC/RAC DATE: 26-03-12 DRAWING NO. M164E25-36100 SHEET 2 of 2 REV: --
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IF IN ANY DOUBT - ASK 1 2 3 4 5 6 7 8



PART REFERENCE	DEVICE ID	DESCRIPTION	PART NUMBER	Mono Part Number
PT-1		Overheat Thermobulb		8873-35-015
PT-2	001205	Heating Element MCB	34447	8873-22-074
PT-3	001205	Heating Element MCB	34447	8873-22-074
PT-4	001205	Heating Element MCB	34447	8873-22-074
PT-5	0030611	Heating Element Connector	LC1250M17	8873-22-074
PT-6	001202	Main Fan Motor MCB Auxiliary Control	KA202024	8873-07-004
PT-7	001202	Main Fan Motor MCB	AP553104	8873-22-052
PT-8	001094	Turbine Motor MCB	AP553104	8873-22-052
PT-9	005505	Interior Light MCB	AP55104	8873-22-003
PT-10	005505	Pump Motor MCB	AP55104	8873-22-003
PT-11	005505	Control Motor MCB	AP55102	8873-22-061
PT-12		Interior Light Heavy		8801-36-001
PT-13		Interior Light Heavy Base		8801-36-001
PT-14	0043M02	Main Fan Motor Connector	LC1209H8	8801-08-011
PT-15	001101	Main Fan Motor Thermal Overload	13072	8801-01-040
PT-16	001101	Turbine Motor Connector	LC1209H8	8801-08-011
PT-17	001101	Turbine Motor Thermal Overload	13066	8801-01-041
PT-18	001205	24V DC Fan Supply	ARL1P1806025	8801-35-005
PT-19		Steam Solenoid		8801-35-004
PT-20		Overheat Solenoid		8801-35-005
PT-21		Overheat Solenoid		8801-35-005
PT-22	001401	Main Fan Motor	MONO	8859-74-024
PT-23	001402	Turbine Motor Unit	MONO	8859-74-024
PT-24	0054501	Turbine Inlet Switch Body	ZC6205	8801-11-013
PT-25	0054501	Turbine Inlet Switch Head	ZC6205	8801-11-013
PT-26	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-27	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-28	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-29	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-30	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-31	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-32	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-33	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-34	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-35	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-36	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-37	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-38	0054501	Turbine Inlet Switch Actuator	ZC6205	8801-11-013
PT-39		Door Switch Head		8801-45-004
PT-40		Door Switch Actuator		8801-45-004
PT-41		Interior Light Holder		8801-45-004
PT-42		Interior Light Bulb		8801-45-004
PT-43		Interior Light Bulb		8801-45-004
PT-44		Interior Light Bulb		8801-45-004
PT-45		Interior Light Bulb		8801-45-004
PT-46		Interior Light Bulb		8801-45-004
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PT-97		Interior Light Bulb		8801-45-004
PT-98		Interior Light Bulb		8801-45-004
PT-99		Interior Light Bulb		8801-45-004
PT-100		Interior Light Bulb		8801-45-004

RIGHT HAND OVEN POSITION
LEFT HAND OVEN POSITION

TEST POINT

PT-39 & PT-40 ONLY IF PUMP FITTED

MONO EQUIPMENT
QUEENSWAY
SWANSEA WEST IND. PARK
SWANSEA, SA5 4HE
TEL: 01792 691234
FAX: 01792 561018

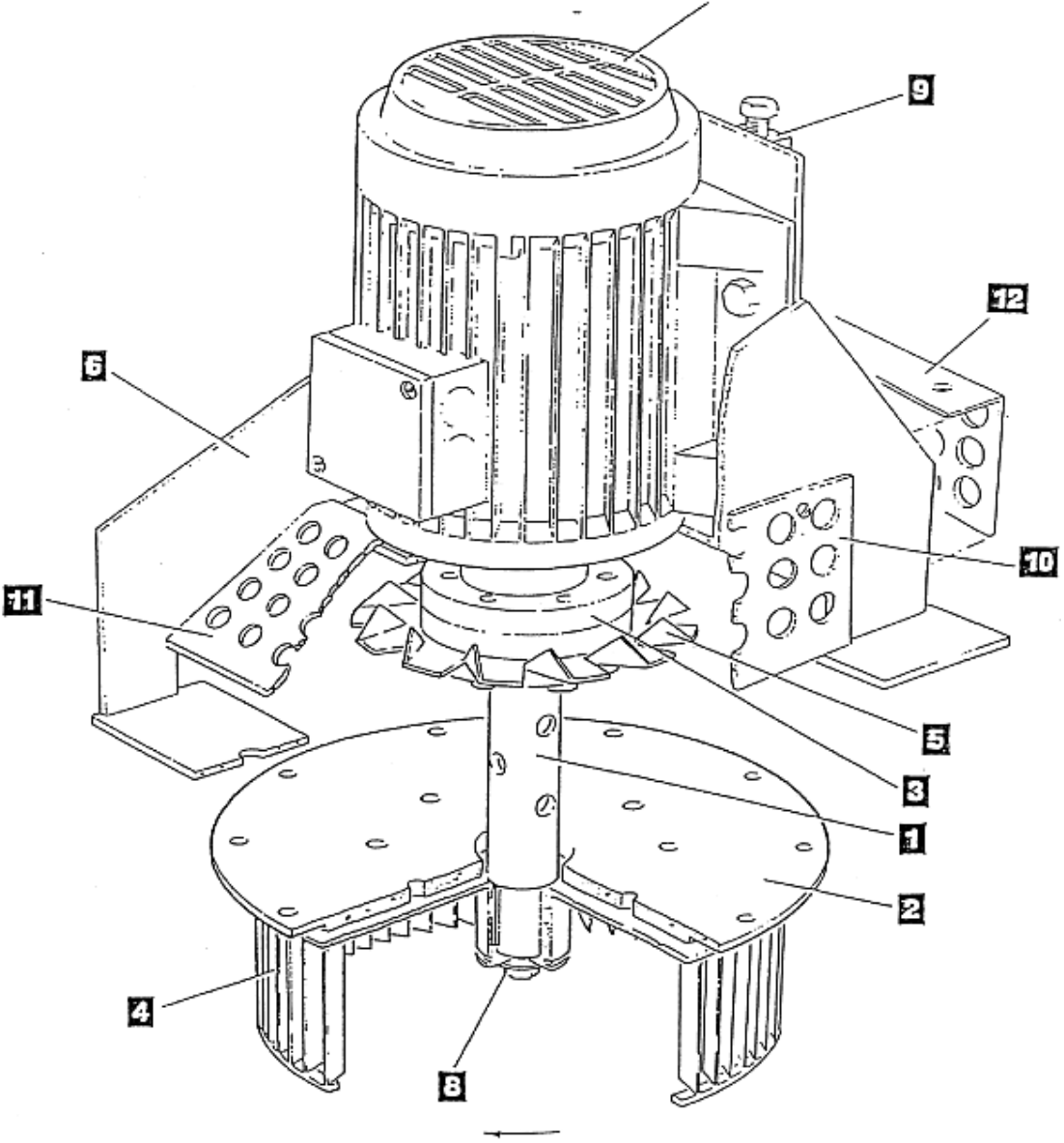
GENERAL LAYOUT

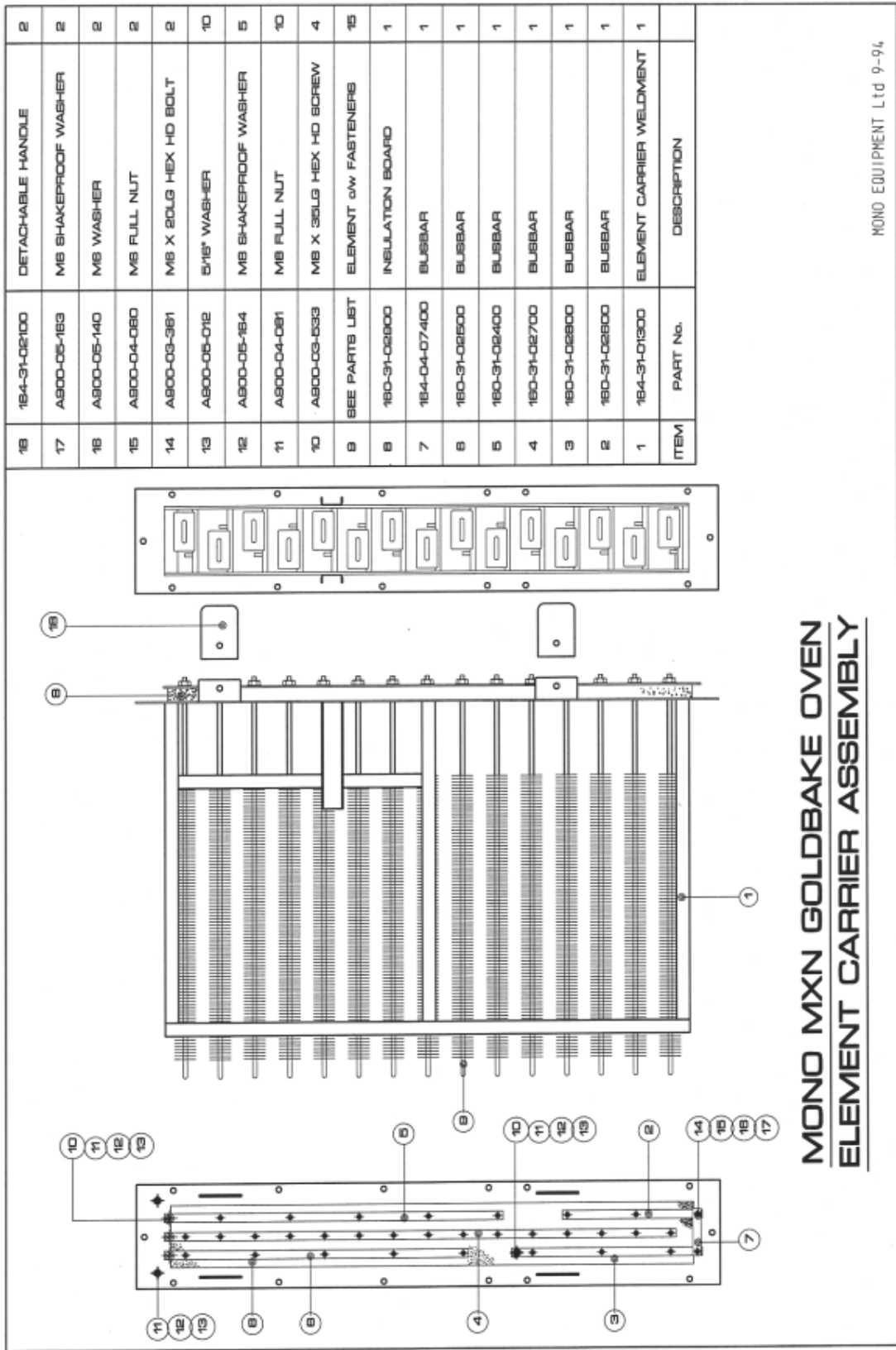
ELECTRICAL SPECIFICATIONS:
DRAWN: TD
DATE: 19.08.2013
DRAWING NO.: 164E25-40000
REV: E

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MAIN FAN ASSEMBLY FOR MXN SMARTBAKE OVEN

ITEM NO.	DESCRIPTION	PART NO.	QTY PER ASSY
1	Fan Shaft (Lower)	160-14-01700	1
2	Lower Fan Access Cover	160-35-01000	1
3	Driving Flange	160-14-10000	1
4	Main Fan	A900-27-049	1
5	Cooling Fan	160-14-02400	1
6	Fan Support Bracket	160-35-00500	1
7	Motor	B859-74-024	1
8	Retaining Washer	160-14-10100	1
9	Motor Slip Plate Assembly	160-35-00100	1
10	Fan Guard Side	160-35-01500	2
11	Fan Guard Front	160-35-01600	1
12	Fan Guard Rear	160-35-01600	1

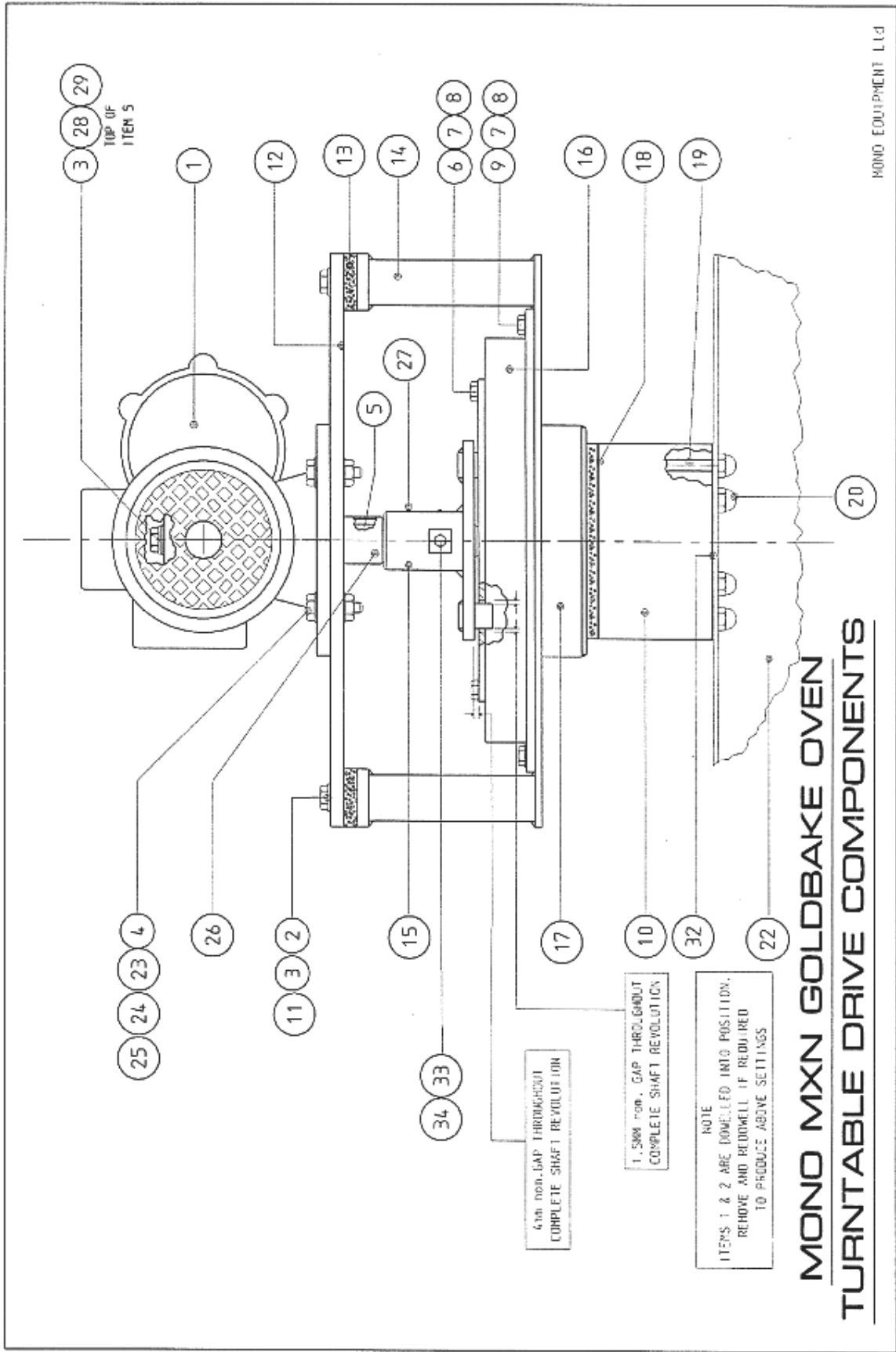




ITEM	PART No.	DESCRIPTION
18	184-31-02100	DETACHABLE HANDLE
17	A900-05-183	MS SHAKEPROOF WASHER
16	A900-05-140	MS WASHER
15	A900-04-080	MS FULL NUT
14	A900-03-381	MS X 20LG HEX HD BOLT
13	A900-05-012	5/16" WASHER
12	A900-05-154	MS SHAKEPROOF WASHER
11	A900-04-081	MS FULL NUT
10	A900-03-838	MS X 36LG HEX HD SCREW
9	SEE PARTS LIST	ELEMENT JW FASTENERS
8	180-31-06900	INSULATION BOARD
7	184-04-07400	BUSBAR
6	180-31-06500	BUSBAR
5	180-31-06400	BUSBAR
4	180-31-06700	BUSBAR
3	180-31-06800	BUSBAR
2	180-31-06900	BUSBAR
1	184-31-01300	ELEMENT CARRIER WELDMENT

**MONO MXN GOLDBAKE OVEN
ELEMENT CARRIER ASSEMBLY**

MONO EQUIPMENT Ltd 9-94



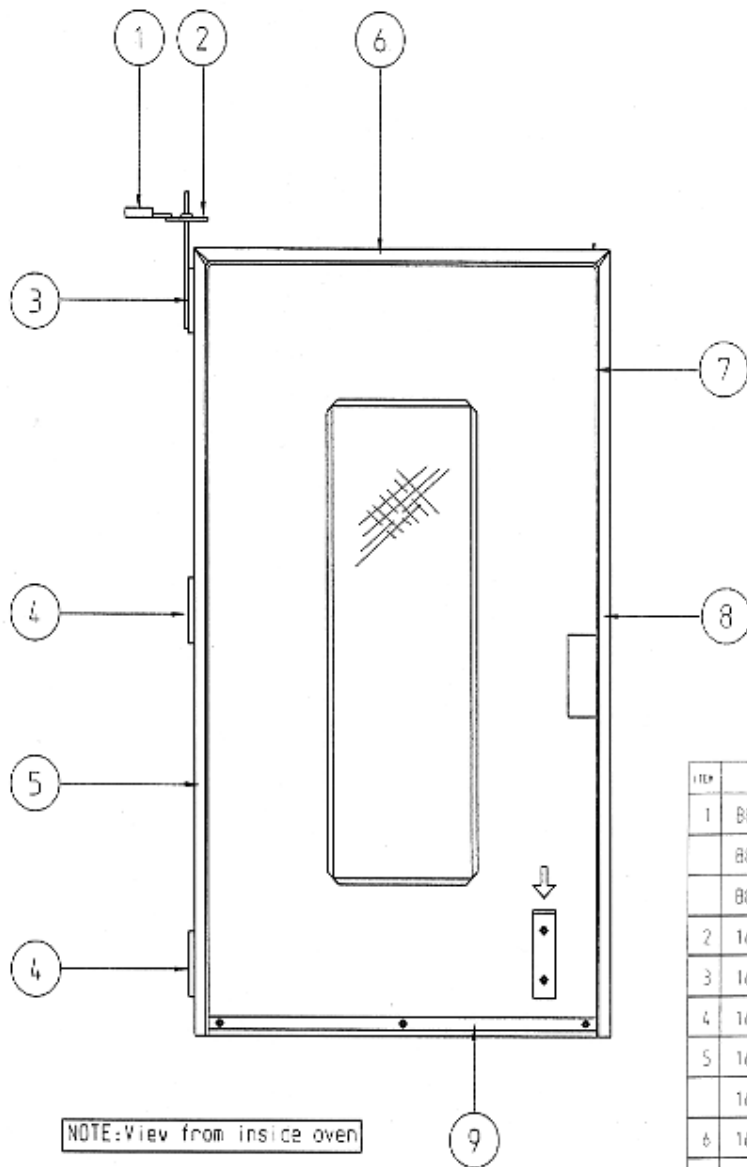
**MONO MXC GOLDBAKE OVEN TURNTABLE DRIVE
COMPONENTS DESCRIPTION**

(see drawing on previous page)

Item	Part no	Description	Qty
1	B912-74-009	Gearmotor unit (Varvel MRA70)	1
2	A900-05-143	M10 Plain washer	4
3	A900-05-142	M10 Spring washer	5
4	A900-03-387	M12 x 45LG Hex.Hd. setscrew	4
5	162-02-04100	Drive shaft assy (shaft key pin)	1
6	A900-03-383	M8 x 25LG Hex.Hd.setscrew	8
7	A900-05-144	M8 Plain washer	16
8	A900-05-141	M8 Spring washer	16
9	A900-03-439	M8 x 50LG Hex.Hd.setscrew	8
10	160-36-01000	Turntable drive (lower)	1
11	A900-03-438	M10 x 45LG. Hex.Hd.setscrew	4
12	160-15-00600	Top plate	1
13	160-15-00700	Insulation packing piece	4
14	160-36-00100	Bearing support plate assy.	1
15	162-02-04400	Drive spider	1
16	160-36-00300	Turntable bearing	1
17	160-15-00800	Turntable drive (upper)	1
18	160-15-01400	Insulation disc	1
19	160-36-01100	M10 Stud	6
20	A900-04-096	M10 Dome nut	6
21			
22	160-36-00600	Rack hanger. (ref. only)	1
23	A900-05-022	½" Plain washer	8
24	A900-05-059	½" Spring washer	8
25	A900-04-084	M12 Nut	4
26	162-02-04300	Spacer	7
27	A900-03-436	M6 x 10LG Grub screw	2
28	162-02-045	Washer (drive shaft)	1
29	A900-03-395	M10 x 16LG hex.Ho. setscrew	1
30	160-35-02000	Direction of rotation label	1
31	A900-03-628	M4 x 6LG slotted pan ho. screw	2
32	160-40-06102	Packing shim for rack hanger (14swg)as required	
	160-40-06103	-----"----- (20swg)-----"	
33	A900-03-360	M6 x 12LG Hex.Hd. setscrew	1
34	A900-05-163	M6 Shakeproof washer	1

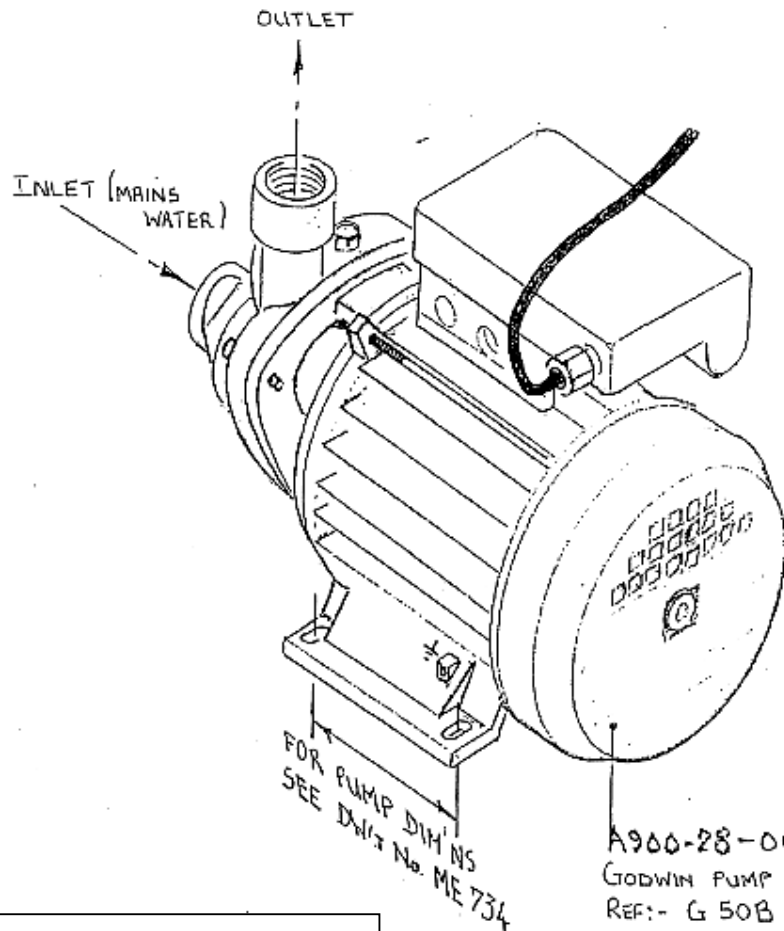
ROPE SEAL PT No. A900-32-016 (NOT SHOWN)

RUBBER SEAL PT No. A900-12-060 (NOT SHOWN)

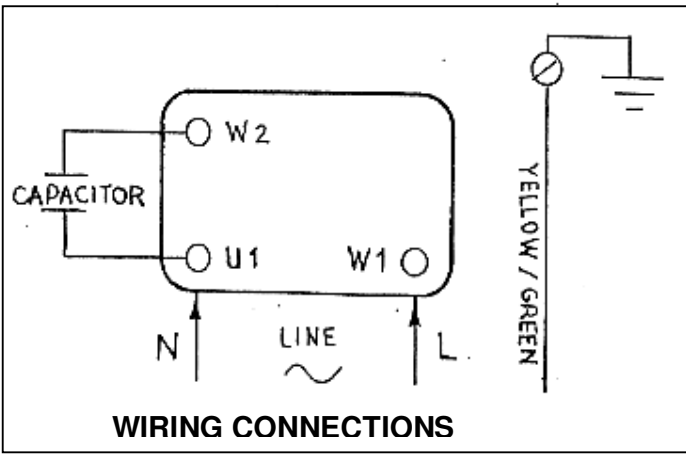


MAIN DOOR COMPONENTS

ITEM	PART NO.	DESCRIPTION	QTY
1	B801-11-013	SWITCH	1
	B801-45-003	OPERATING HEAD	1
	B801-45-004	OPERATING LEVER	1
2	160-06-02200	CAK	1
3	160-06-06700	TOP HINGE	1
4	160-06-08500	MIDDLE & BOTTOM HINGE	2
5	160-06-07101	INNER CLAMP	1
	160-06-07001	OUTER CLAMP	1
6	160-06-07300	INNER CLAMP	1
	160-06-07200	OUTER CLAMP	1
7	A900-12-037	"P" SEAL	1
8	160-06-07100	INNER CLAMP	1
	160-06-07000	OUTER CLAMP	1
9	160-48-06400	BOTTOM CLAMP	1
	160-48-06000	BOTTOM SEAL	1



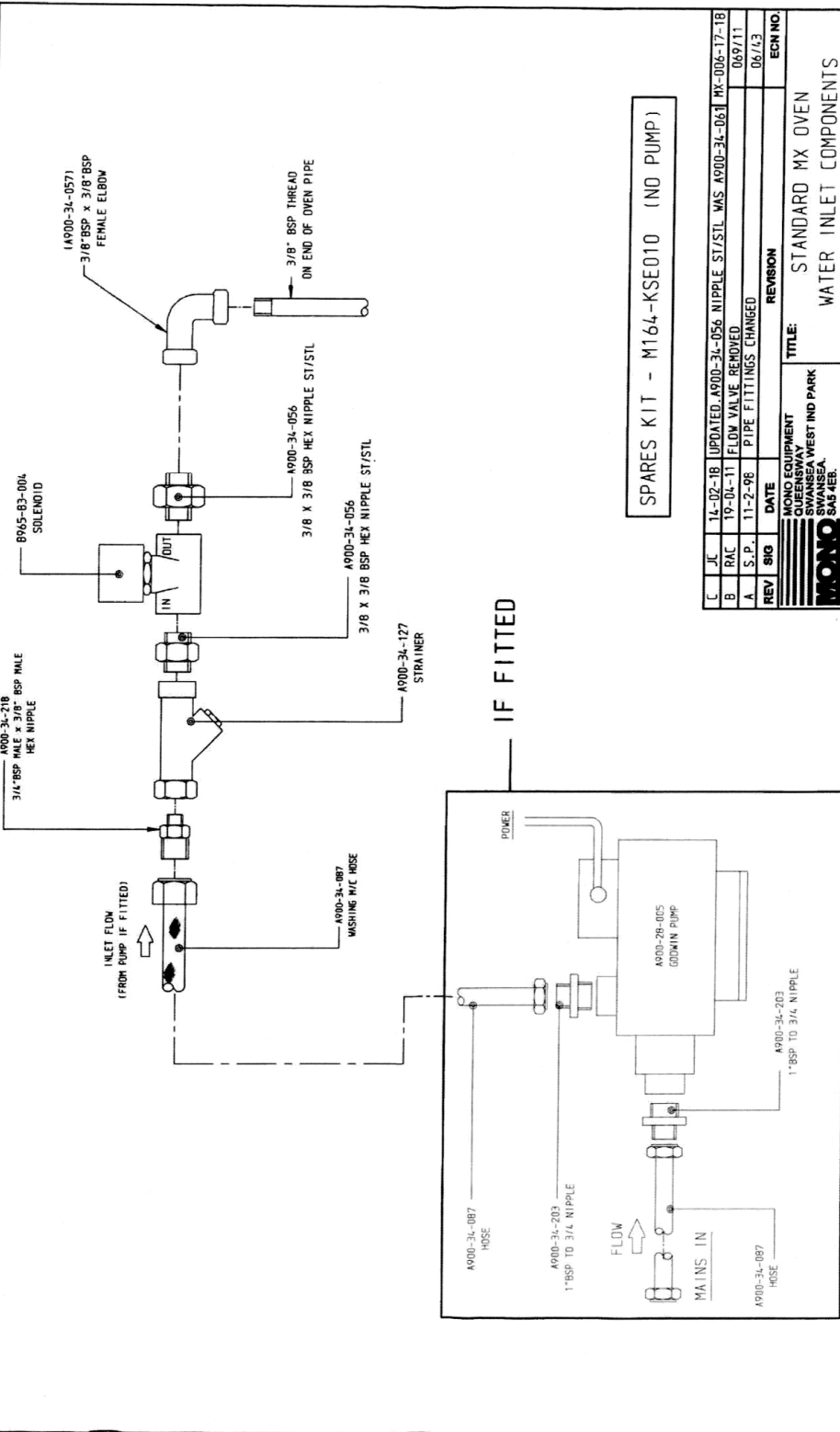
A900-28-005
 GODWIN PUMP
 REF:- G 50B
 0.5 HP
 240V-50Hz-1PH
 2850 RPM 2.4 AMPS



WATER PUMP (GODWIN) DIAGRAM
 (IF FITTED)

DO NOT SCALE - IF IN DOUBT ASK

ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED



SPARES KIT - M164-KSE010 (NO PUMP)

REV	SIG	DATE	REVISION	ECN NO.																								
C	JC	14-02-18	UPDATED A900-34-056 NIPPLE ST/STL WAS A900-34-061	MX-006-17-18																								
B	RAC	19-04-11	FLOW VALVE REMOVED	069/11																								
A	S.P.	11-2-98	PIPE FITTINGS CHANGED	06/23																								
<table border="1"> <tr> <td>MATL</td> <td>MONO EQUIPMENT</td> <td>TITLE:</td> <td>STANDARD MX OVEN</td> </tr> <tr> <td></td> <td>SWANSEA WEST IND PARK</td> <td></td> <td>WATER INLET COMPONENTS</td> </tr> <tr> <td></td> <td>SWANSEA</td> <td></td> <td>(PUMP IF FITTED)</td> </tr> <tr> <td></td> <td>SAS 4EB</td> <td></td> <td></td> </tr> <tr> <td></td> <td>TEL: (01792) 861234</td> <td></td> <td></td> </tr> <tr> <td></td> <td>FAX: (01792) 561016</td> <td></td> <td></td> </tr> </table>					MATL	MONO EQUIPMENT	TITLE:	STANDARD MX OVEN		SWANSEA WEST IND PARK		WATER INLET COMPONENTS		SWANSEA		(PUMP IF FITTED)		SAS 4EB				TEL: (01792) 861234				FAX: (01792) 561016		
MATL	MONO EQUIPMENT	TITLE:	STANDARD MX OVEN																									
	SWANSEA WEST IND PARK		WATER INLET COMPONENTS																									
	SWANSEA		(PUMP IF FITTED)																									
	SAS 4EB																											
	TEL: (01792) 861234																											
	FAX: (01792) 561016																											
DRAWN:		PURCHASE ORDER NO.	WORKS ORDER NO.																									
RAC																												
DATE:																												
16-12-96																												
NO. REQ:																												
DRAWING SCALE:																												
A3																												
DRAWING SIZE:																												
M164-01-02300																												
REV:																												

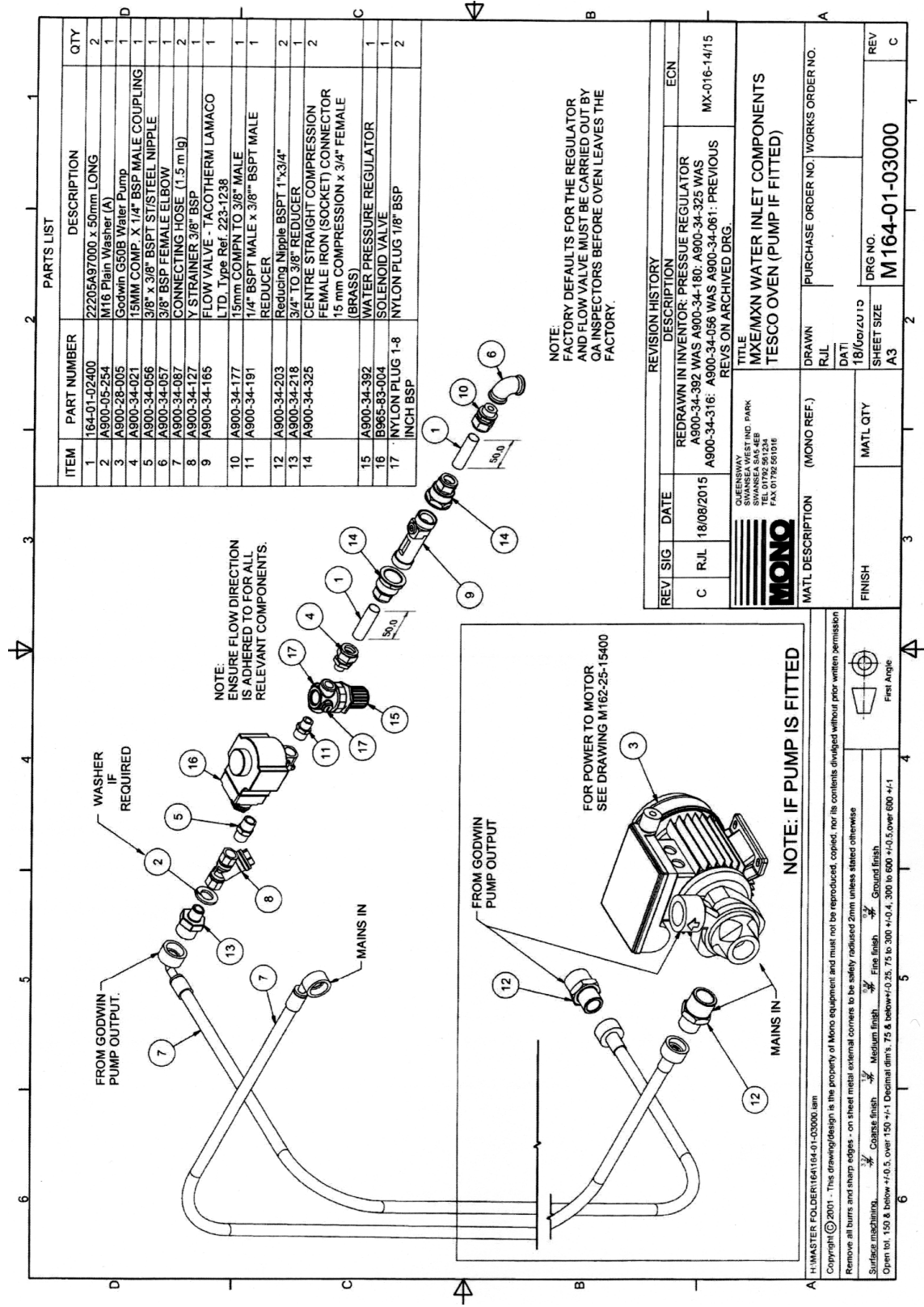
REMOVE ALL BURRS & SHARP EDGES - ON SHEET METAL PARTS EXTERNAL CORNERS TO BE SAFETY RADIUSED 2mm UNLESS STATED OTHERWISE

SURFACE MACHINING: $\frac{1}{16}$ COARSE FINISH, $\frac{1}{32}$ MEDIUM FINISH, $\frac{1}{64}$ FINE FINISH, $\frac{1}{128}$ GROUND FINISH

OPEN TOL. 150 & BELOW $\pm .5$ OVER 150 ± 1.0 DECIMAL DIMS. 75 & BELOW $\pm .25$ TO 3002. C. 300 TO 6002. S. OVER 6002. 1.0

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1st ANGLE



PARTS LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	164-01-02400	22205A97000 x 50mm LONG	2
2	A900-05-254	M16 Plain Washer (A)	1
3	A900-28-005	Godwin G50B Water Pump	1
4	A900-34-021	15MM COMP. X 1/4" BSP MALE COUPLING	1
5	A900-34-056	3/8" x 3/8" BSP ST/STEEL NIPPLE	1
6	A900-34-057	3/8" BSP FEMALE ELBOW	1
7	A900-34-087	CONNECTING HOSE (1.5 m lg)	2
8	A900-34-127	Y STRAINER 3/8" BSP	1
9	A900-34-165	FLOW VALVE - TACOTHERM LAMACO LTD. Type Ref. 223-1238	1
10	A900-34-177	15mm COMPN TO 3/8" MALE	1
11	A900-34-191	1/4" BSPPT MALE x 3/8" BSPPT MALE REDUCER	1
12	A900-34-203	Reducing Nipple BSPT 1"x3/4"	2
13	A900-34-218	3/4" TO 3/8" REDUCER	1
14	A900-34-325	CENTRE STRAIGHT COMPRESSION FEMALE IRON (SOCKET) CONNECTOR (BRASS)	2
15	A900-34-392	15 mm COMPRESSION x 3/4" FEMALE WATER PRESSURE REGULATOR	1
16	B965-85-004	SOLENOID VALVE	1
17	NYLON PLUG 1-8 INCH BSP	NYLON PLUG 1/8" BSP	2

NOTE:
FACTORY DEFAULTS FOR THE REGULATOR
AND FLOW VALVE MUST BE CARRIED OUT BY
QA INSPECTORS BEFORE OVEN LEAVES THE
FACTORY.

REV	SIG	DATE	DESCRIPTION	REVISION HISTORY	ECN
C	RJL	18/08/2015	REDRAWN IN INVENTOR; PRESSURE REGULATOR A900-34-392 WAS A900-34-180; A900-34-325 WAS A900-34-316; A900-34-056 WAS A900-34-061; PREVIOUS REVS ON ARCHIVED DRG.	MX-016-14/15	

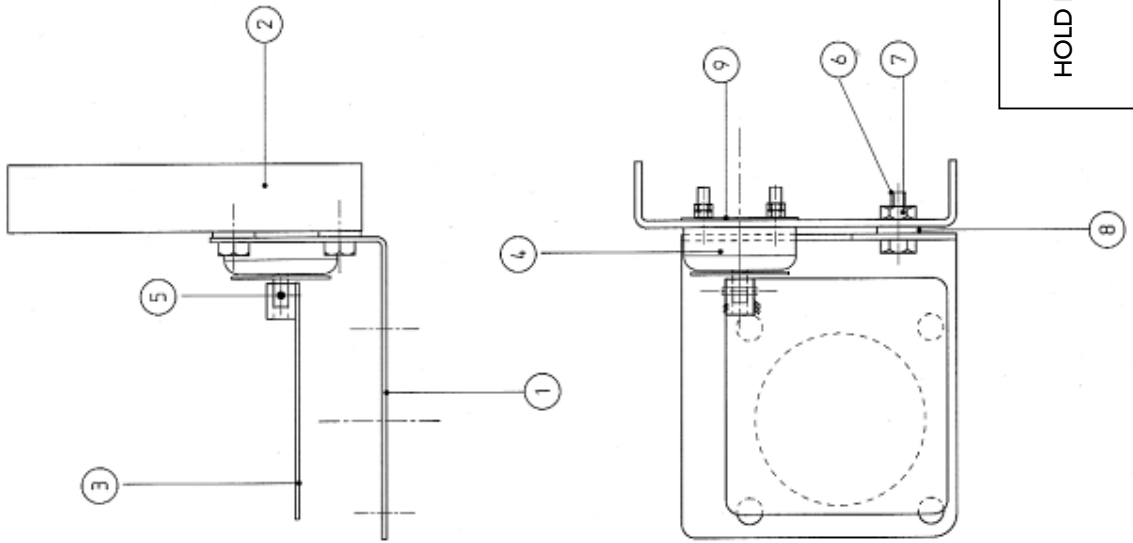
		QUEENSWAY SWANSEA WEST IND. PARK SWANSEA SA5 4EB TEL 01792 591016 FAX 01792 591016	TITLE MXE/MXN WATER INLET COMPONENTS TESCO OVEN (PUMP IF FITTED)
MATL DESCRIPTION	(MONO REF.)	DRAWN	PURCHASE ORDER NO./WORKS ORDER NO.
FINISH		RJL	
		DATE	
		18/08/2015	
		SHEET SIZE	
		A3	
		DRG NO.	
		M164-01-03000	
		REV	
		C	

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Surface finishing:
 Open dt. 150 & below +0.5, over 150 +0.1
 Coarse finish
 Medium finish
 Fine finish
 Ground finish

First Angle

DAMPER ASSEMBLY

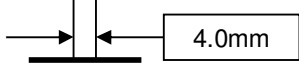
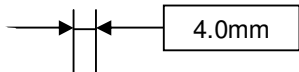
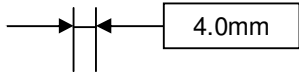
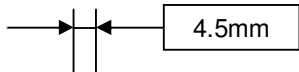
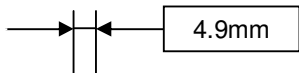
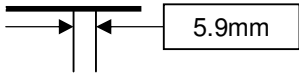
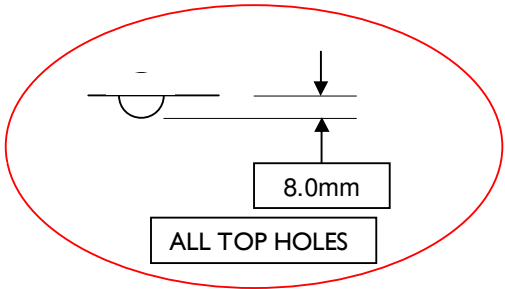


WHEN SUPPLIED AS A SPARE PART INCLUDE
 A OFF FIBRE WASHER A900-05-190
 SEE KIT No. M164-KSE006
 OLD SOLENOID NO LONGER SUPPLIED B998-03-005
 THIS ASSEMBLY MUST BE SUPPLIED FOR SPARES

ITEM	PART NUMBER	DESCRIPTION	QTY
1	M160-38-03100	BASE BRACKET	1
2	M160-38-03200	SOLENOID BRACKET	1
3	M160-38-03300	DAMPER FLAP	1
4	B749-03-004	SOLENOID	1
5	A900-01-197	PIN	1
6	A900-03-532	M8 X 20 HEX HEAD	2
7	A900-04-143	M8 BUSH	2
8	M145-03-11300	FIBRE WASHER	2
9	M164-38-03400	WASHER PLATE	1

LOOSEN SOLENOID FIXINGS.
 HOLD DAMPER FLAP (3) FLAT ON TOP OF DAMPER
 TUBE AND TIGHTEN SOLENOID.

18.0 MX OVEN AIR DOOR DEFAULT SETTINGS





MONO Equipment

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Email:mono@monoequip.com

www.monoequip.com

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

□ **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)