

[www.monoequip.com](http://www.monoequip.com)

Enter **Serial No.** here. \_\_\_\_\_

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



OPERATING AND MAINTENANCE MANUAL

# **'PARK n RIDE' PROVER**

(WITH AND WITHOUT CONVEYOR)

# INDEX

---

|                                   |           |
|-----------------------------------|-----------|
| <b>1.0 INTRODUCTION</b>           | <b>5</b>  |
| <b>2.0 DIMENSIONS</b>             | <b>5</b>  |
| <b>3.0 SPECIFICATIONS</b>         | <b>6</b>  |
| <b>4.0 SAFETY</b>                 | <b>6</b>  |
| <b>5.0 INSTALLATION</b>           | <b>7</b>  |
| <b>6.0 ISOLATION</b>              | <b>7</b>  |
| <b>7.0 CLEANING – DAILY</b>       | <b>8</b>  |
| <b>WEEKLY</b>                     | <b>9</b>  |
| <b>8.0 OPERATION</b>              | <b>10</b> |
| MAIN PANEL                        | <b>11</b> |
| WARNING LIGHTS                    | <b>12</b> |
| <b>9.0 ELECTRICAL INFORMATION</b> |           |
| WITHOUT CONVEYOR                  | <b>13</b> |
| WITH CONVEYOR                     | <b>25</b> |
| <b>10.0 SPARES INFORMATION</b>    | <b>38</b> |


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



## 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
- Good manufacturing practice for Materials intended to come into contact with food - Regulation (EC) No. 2023 / 2006

|  |   |
|--|---|
| <b>Signed</b>                          |  |
| <b>G.A. Williams – Quality Manager</b> |   |

|             |  |
|-------------|--|
| <b>Date</b> |  |
|-------------|--|

|                             |  |                               |  |
|-----------------------------|--|-------------------------------|--|
| <b>Machine<br/>FG Code.</b> |  | <b>Machine<br/>Serial No.</b> |  |
|-----------------------------|--|-------------------------------|--|

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

## 1.0 INTRODUCTION

---

The **Mono Park n Ride Automatic bread plant** is a fully integrated unit enabling rapid change of production lines, without moving any of the items of equipment which comprise the complete plant.

This very compact, all brushed finish stainless steel system can produce up to 1000 loaves an hour.

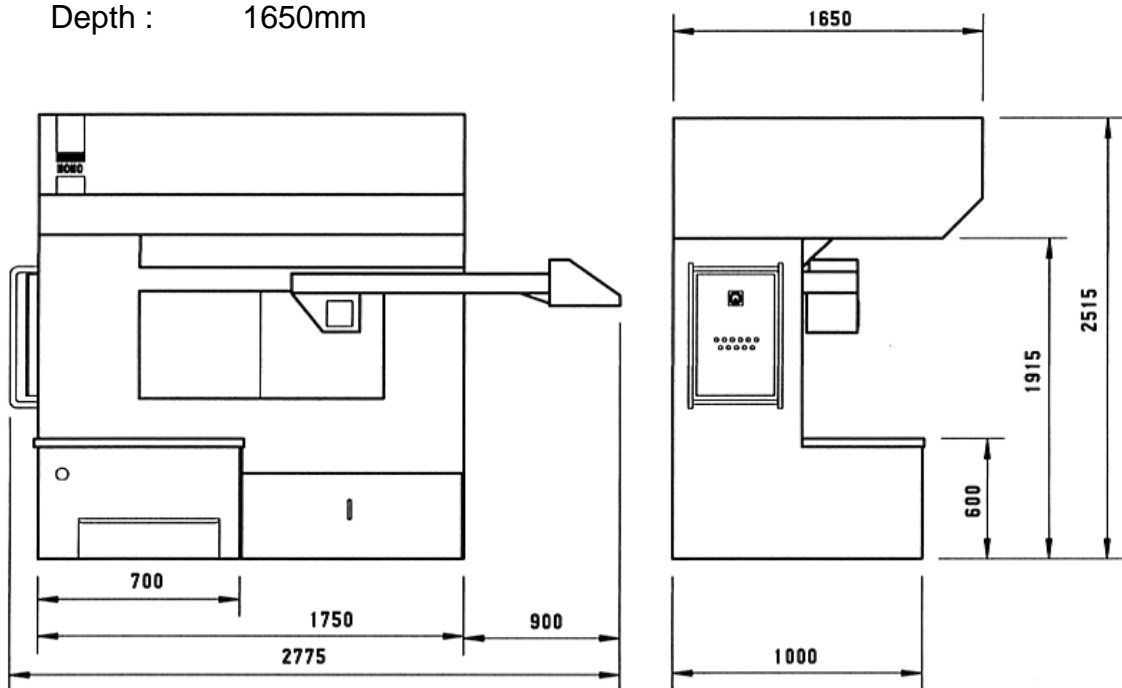
It features electronic timing between the divider and auto prover; a Metro Moulder for fast, but gentle two-stage reduction of all types of dough; and an optional conveyor linked French stick Moulder for processing baguette dough pieces up to 460mm in length.



## 2.0 DIMENSIONS

---

Height : 2515mm  
Width : 2775mm  
Depth : 1650mm



180 POCKET PARK n RIDE PROVER

## 3.0 SPECIFICATIONS

---

Power : 0.86kW, 3 phase + N (excluding Divider and Moulder)  
2.5Kw (including Divider and Moulder)

Weight : 1470kg

Noise level Less than 85dB

## 4.0 SAFETY

---

1. Never use machine in a faulty condition and always report damage.
2. No one under 16 years may operate this machine.
3. All personnel must be trained in its use.
4. All safety devices must be in place and functional before use.
5. Only trained persons may remove any parts that require a tool to remove them.
6. All operators undergoing training must be under the supervision of a trained Bakery Manager or authorised trainer.
7. Do not operate if any panels are removed.
8. Loose clothing must not be worn.
9. All maintenance should be carried out with the main isolator turned off.
10. Daily safety checks should be carried out by the Bakery manager or similar trained person.

## 5.0 INSTALLATION

---

1. The plant should be connected to a mains isolator.
2. The plant should be positioned on a level solid floor .
3. The plant should be positioned to allow access to all areas for both cleaning and maintenance.
4. Full training in both operation and cleaning must be given.

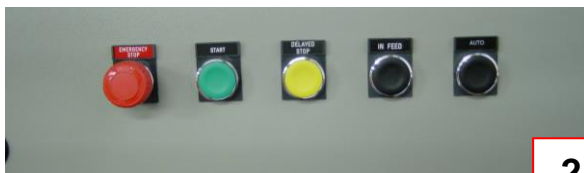
**NOTE:**

The divider must be located correctly by the two locating brackets or dough will not enter the prover correctly and cause dough loss.

## 6.0 ISOLATION

---

In an emergency, use the stop button (2)  
or turn off the main isolator (1).



## 7.0 CLEANING

### CAUTION

ISOLATE MACHINE FROM THE POWER SUPPLY BEFORE CLEANING.

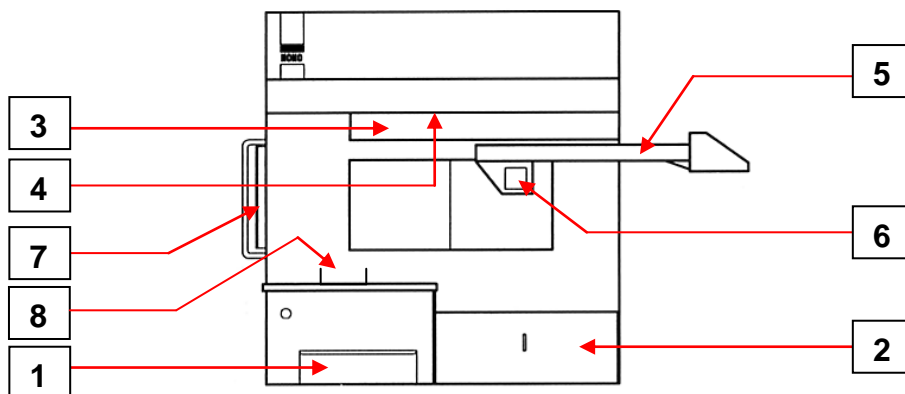
### Warning

Avoid stopping machine with dough left in the pockets as after a time it will adhere to the pockets and cause the machine to malfunction.

ALWAYS CHECK THE POCKETS FOR ADHERING DOUGH AND REMOVE AS SOON AS POSSIBLE. DO NOT WAIT FOR DAILY CLEANING IF IN DOUBT.

### DAILY

1. Brush infeed chute **(8)** ensuring the dough sensor and reflector are clean.
2. Remove drive box drawer **(1)** and cleaning door **(2)**.
3. Withdraw the plastic trays and remove dough. Wash thoroughly, dry and replace.
4. Wipe over drawer and door and replace.
5. Remove clear transfer window **(3)**. Wash and dry.
6. Wipe the window fixing channels and replace window.
7. Open main overhang door **(4)** and check for fallen pieces of dough inside. Brush rear of door and close.
8. Brush conveyor **(5)** (if fitted) and wipe clean the metalwork paying attention to the chute areas and inner sides.
9. Remove the moulder from position and clean the conveyor chute **(6)** inside and out paying attention to edges, corners and the window area.
10. Wipe over the control panel **(7)** with a **damp** cloth (do not allow moisture to enter the panel). Pay attention to the switch area removing any residue. (do not use a knife).



**KEEP WATER AWAY FROM THE MAIN CONTROL PANEL  
AND ELECTRICAL CONNECTION SOCKETS.**



## WEEKLY

CAUTION  
ISOLATE MACHINE FROM THE POWER SUPPLY BEFORE CLEANING.

**As daily cleaning and also: -**

1. Wipe over all outer sheeting and doors with sanitizing solution.

**KEEP WATER AWAY FROM THE MAIN CONTROL PANEL  
AND ELECTRICAL CONNECTION SOCKETS.**

2. Ensure top sheeting is clear and clean as required.

**Do not stand on or store items on the roof**

3. Inspect the floor area inside and clean as required.

## **CARRIER and POCKET REMOVAL**

1. Open front windows to access carriers.
2. Although not necessary when cleaning and replacing pockets, carriers can be removed if required by pulling chain sideways off the locating pins on the end of the carrier. It is advisable not remove more than one at a time and note that the carriers are positioned at three link intervals. Note that the end roller should always be to the rear.
3. Hold carrier body and pull the blue carrier pocket gently upwards to unclip.  
*(Note that there are 6 pockets to a carrier and each one can be replaced individually without removing the carrier from the prover)*



**MOULDED CLIPS**



**CARRIER**

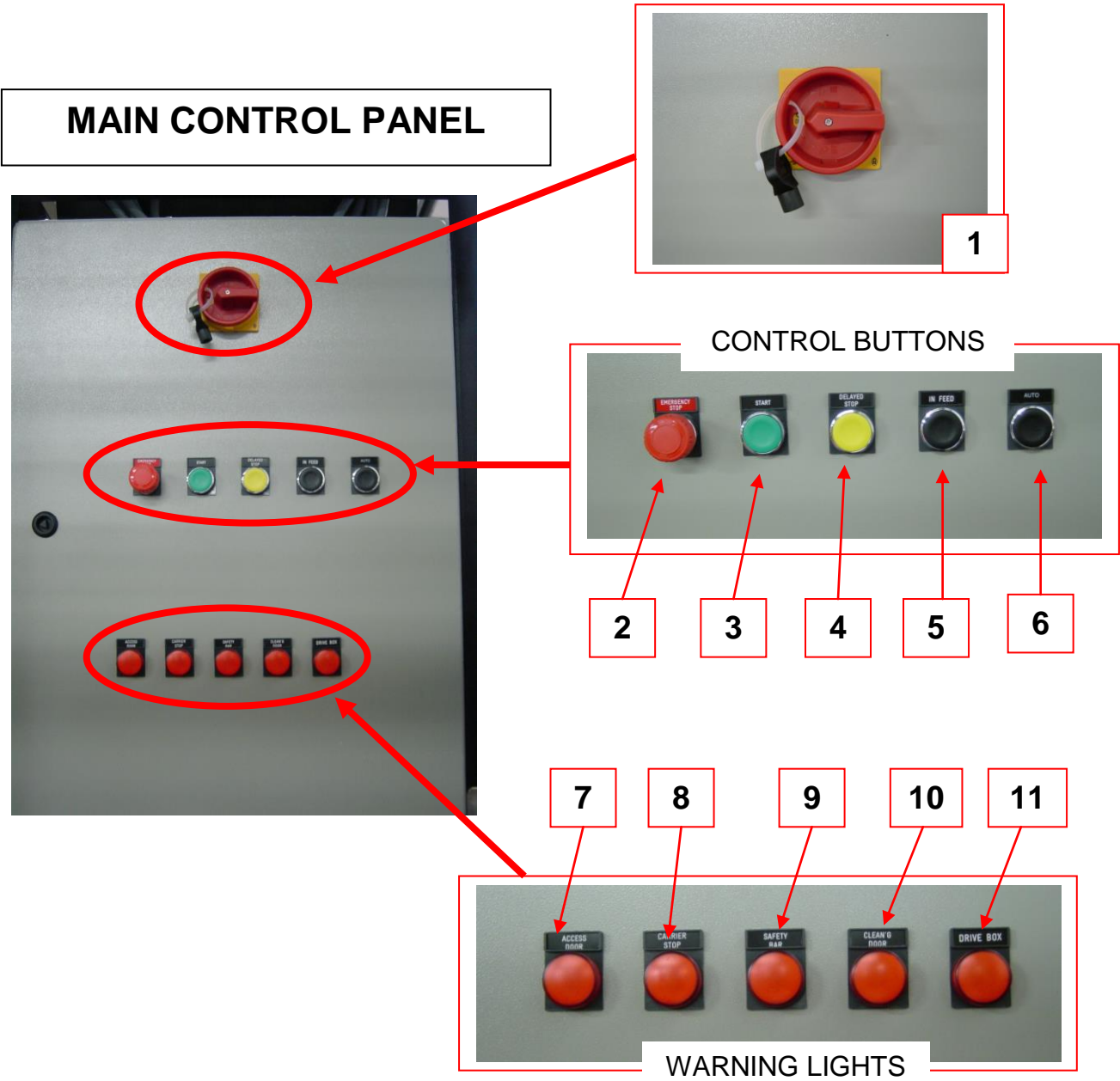
# 8.0 OPERATION

Dough pieces are transferred via a chute to a carrier pocket. As it travels down the chute and into the pocket, an electronic eye is triggered which causes the carriers to rotate one position.

After one and a half minutes of nothing passing the sensor, a flashing beacon starts to alert the operator. The prover can then either be run in continuous mode, to empty the dough to the moulder, or the divider started and the prover loading continued.

**NOTE:**

The divider must be located correctly by the two locating brackets or dough will not enter the prover correctly and cause dough loss.



## MAIN PANEL

### MAINS ISOLATOR SWITCH (1)

This controls the power supply to the prover and all machines connected to it.  
*If fitted the conveyor will run when this is switched on.*

### EMERGENCY STOP (2)

Stops the prover in emergency.  
Release by pushing and turning.

*NOTE. Do not use to stop the prover except in emergency as dough position may cause problems.*

### START BUTTON (3)

Starts the prover in auto mode.

(If the prover is set to infeed then no movement will happen until dough passes the sensor on the chute.)

### DELAYED STOP (4)

Use this to stop the prover carriers in the best operating position.

**Always use this to stop the prover** except in emergency.

### INFEEED BUTTON (5)

No movement will happen until dough passes the sensor on the chute.

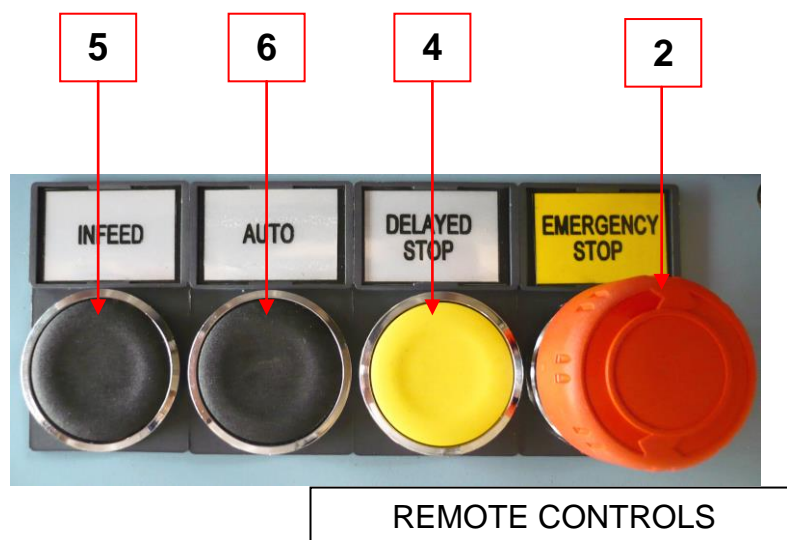
*NOTE: Divider will only operate if infeed is selected.*

### AUTO BUTTON (6)

For use when the divider has completed operation and the prover needs to continue moving to feed the moulders.

## REMOTE CONTROL BOX

This is situated under the overhang and gives the operator the main control buttons in an alternative place to the main control panel.



## WARNING LIGHTS

### ACCESS DOOR (7)

Main overhang cleaning door not positioned correctly.

### CARRIER STOP (8)

Carrier stop switch activated.

Switch off power at main isolator (1).

Check for correct position of carriers in the overhang.

Dough may have caused a carrier to swing incorrectly at the turnover stage.

If the cause can not be rectified by removing dough piece, call for maintenance.

### SAFETY BAR (9)

Red safety bar across lower edge of main windows has been activated.

Clear obstruction and restart prover.

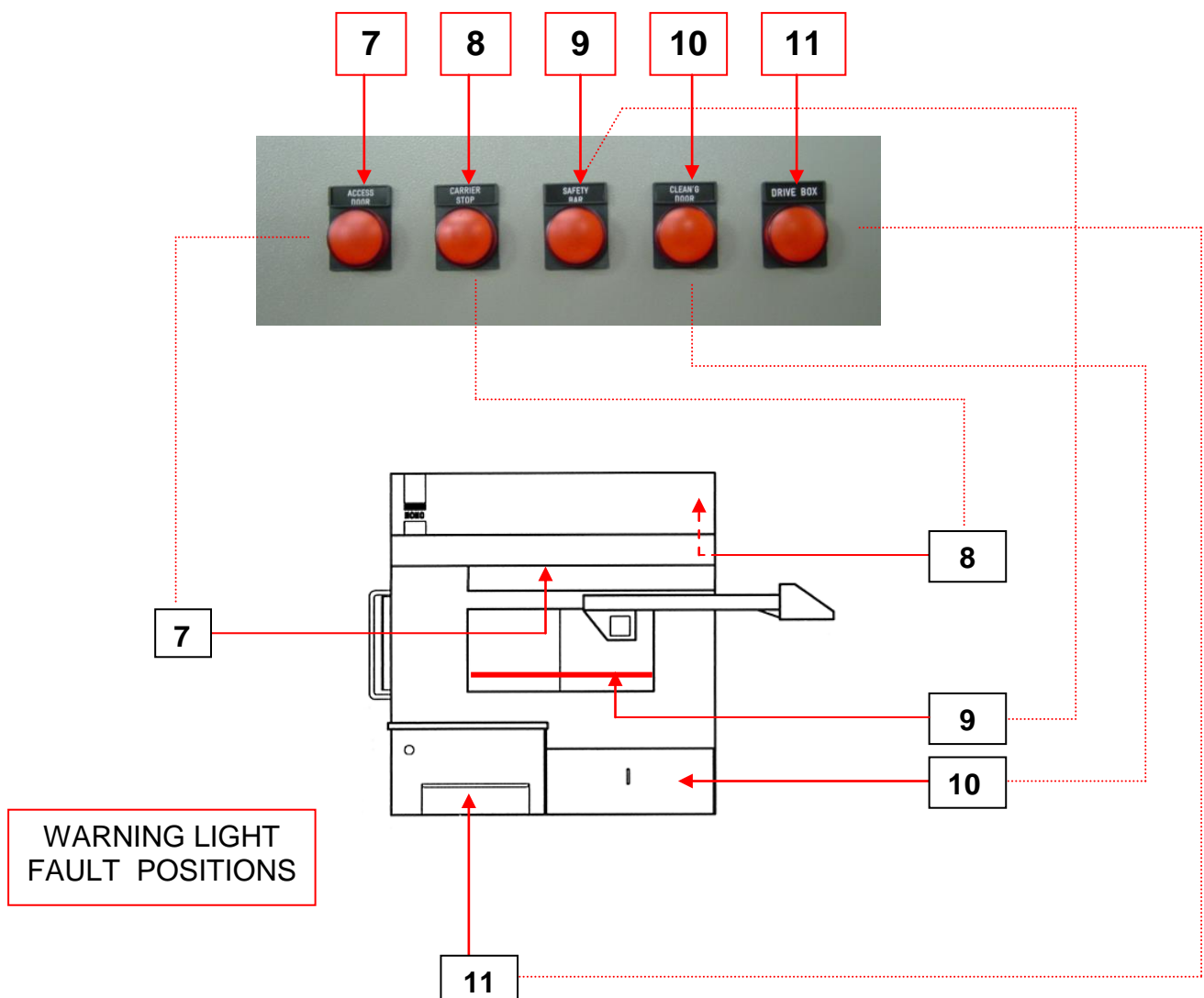
### CLEANING DOOR (10)

Front lower cleaning door not positioned correctly.

### DRIVE BOX (11)

Check that drive box drawer is closed.

Prover will not work unless the drawer is replaced after cleaning.



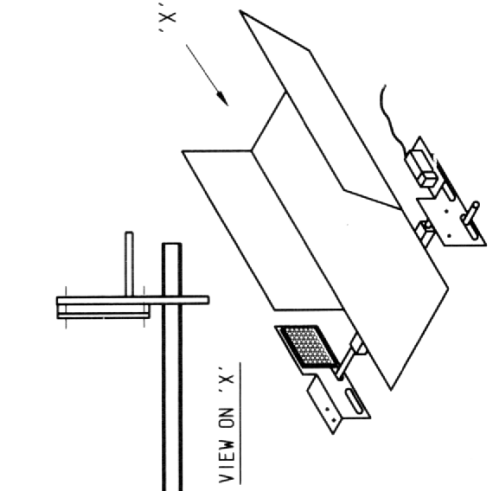
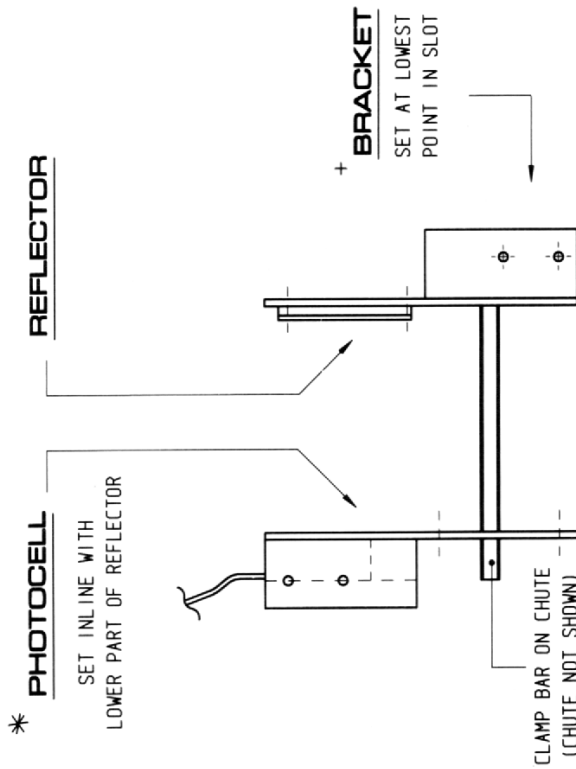


## 9.0 ELECTRICAL INFORMATION

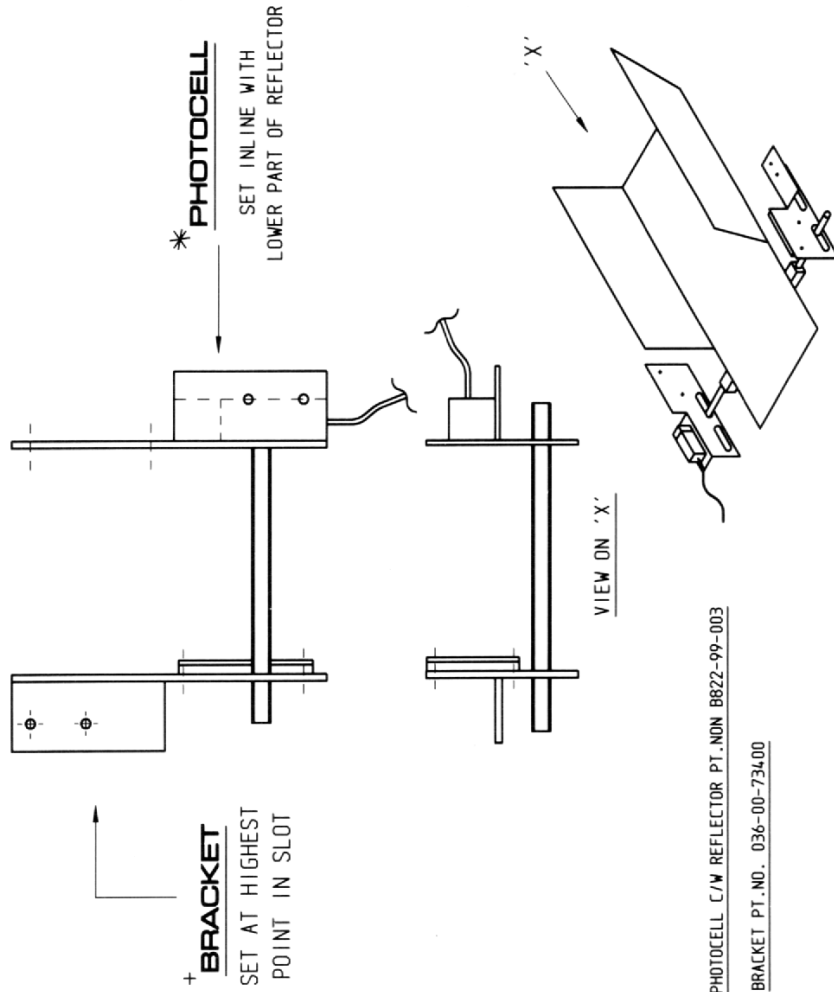
**WITHOUT CONVEYOR**

IF IN ANY DOUBT - ASK

**LEFT HAND MACHINE**



**RIGHT HAND MACHINE**

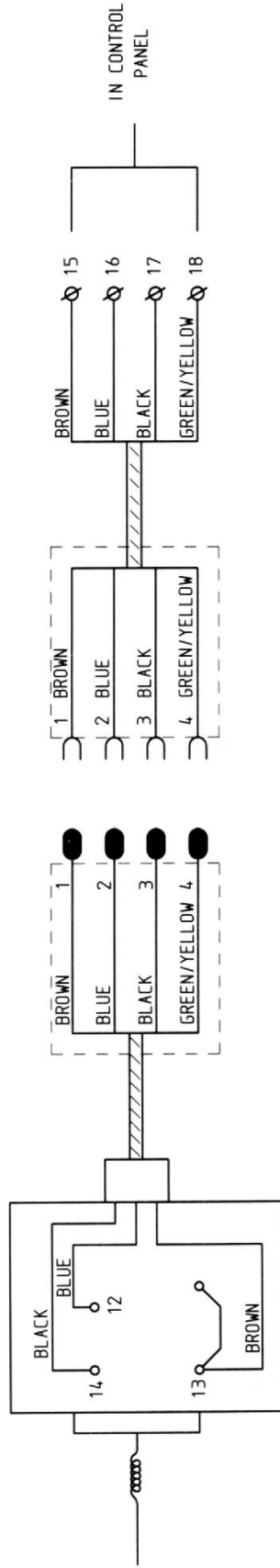


\* PHOTOCELL C/W REFLECTOR PT. NON B822-99-003  
+ BRACKET PT. NO. 036-00-734.00

|   |     |        |   |         |
|---|-----|--------|---|---------|
| REV   | SIG | DATE   | NO CHANGES. ISOMETRIC VIEWS ADDED FOR CLARITY | 4294    |
| A   | RAC | 8-3-93 |   | ECN NO. |
| <p>MONO EQUIPMENT<br/>QUEENSWAY<br/>SWANSEA WEST IND PARK<br/>SWANSEA<br/>SA5 4EB<br/>TEL: (01792) 561234<br/>FAX: (01792) 561016</p> |     |        | TITLE:<br>PHOTOCELL POSITION<br>PARK 'N' RIDE |         |
| ELECTRICAL SPECIFICATIONS:-   |     |        | DRAWN: RAC/JC                                 |         |
| ELECTRICALLY APPROVED BY:-  |     |        | DATE: 31-10-90                                |         |
|   |     |        | DRAWING NO. M036-25-10000                     |         |
|   |     |        | REV: A  |         |

REDRAWN ON CAD 10-98  
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.

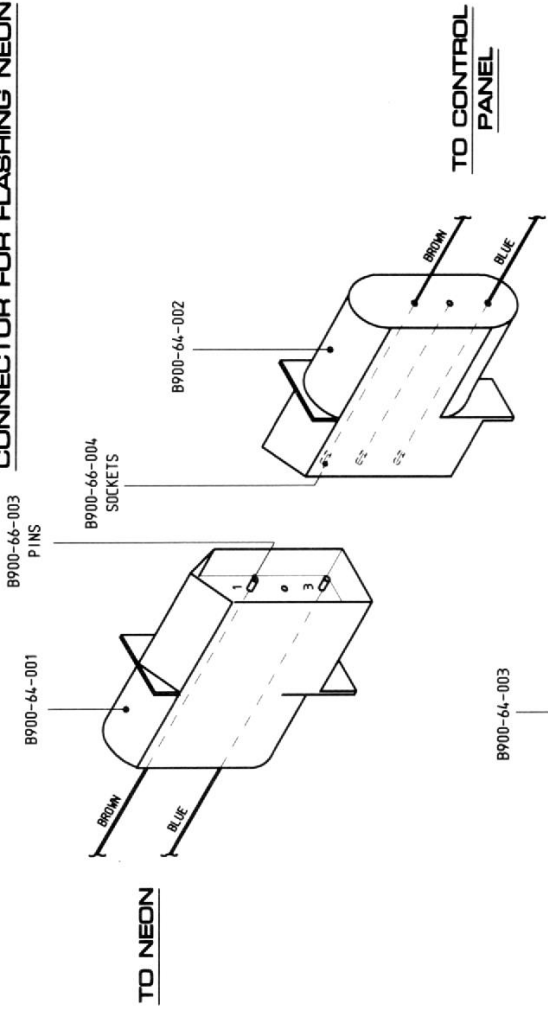
IF IN ANY DOUBT - ASK



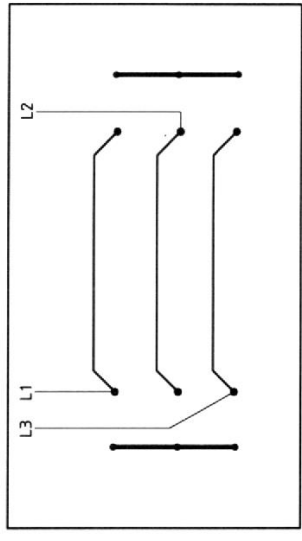
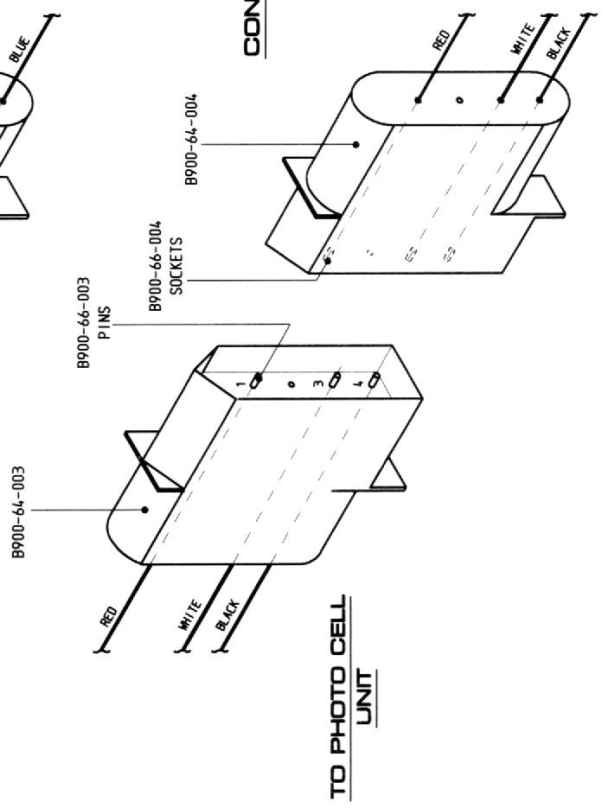
| REV  | SIG | DATE | REVISION                     | ECN NO. |
|--|-----|------|------------------------------|---------|
| <b>MONO EQUIPMENT</b><br>QUEENSWAY<br>SWANSEA WEST IND PARK<br>SWANSEA,<br>SA5 4EB.<br>TEL: (01792) 561234<br>FAX: (01792) 561016  |     |      |                              |         |
| TITLE:<br>CARRIER STOP LIMIT SWITCH WIRING<br>PARK N RIDE PROVER   |     |      | DRAWN:<br>RAC/JC             |         |
| ELECTRICAL SPECIFICATIONS:-  |     |      | ELECTRICALLY APPROVED BY:-   |         |
| REDRAWN ON CAD 10-98   |     |      | DATE:<br>15-9-90             |         |
| COPYRIGHT © 1998 - THIS DESIGN/DRAWING IS THE PROPERTY OF MONO EQUIPMENT LTD. AND MUST NOT BE REPRODUCED, COPIED,<br>NOR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN PERMISSION. |     |      | DRAWING NO.<br>M036-25-10000 |         |
|  |     |      | SHT 8<br>REV: —              |         |

IF IN ANY DOUBT - ASK

**CONNECTIONS ON 3 WAY CONNECTOR FOR FLASHING NEON**



**CONNECTIONS ON 4 WAY CONNECTOR FOR PHOTO CELL UNIT**



**MOTOR CONNECTIONS**

| REV  | SIG | DATE | REVISION  | ECN NO.                                       |
|--|-----|------|---|---|
|  |     |      | TITLE: PARK N RIDE PROVER WIRING FOR 3 & 4 WAY CONNECTORS AND MOTOR |   |
| <p>MONO EQUIPMENT<br/>QUEENSWAY<br/>SWANSEA WEST IND PARK<br/>SWANSEA<br/>SA5 4EB.<br/>TEL: (01792) 561234<br/>FAX: (01792) 561016</p> |     |      | <p>DRAWN: RAC/JC</p> <p>DATE: 14-9-90</p>                           | <p>DRAWING NO. SHT 9</p> <p>M036E25-10000</p> |
| ELECTRICAL SPECIFICATIONS:-  |     |      | ELECTRICALLY APPROVED BY:-  |   |

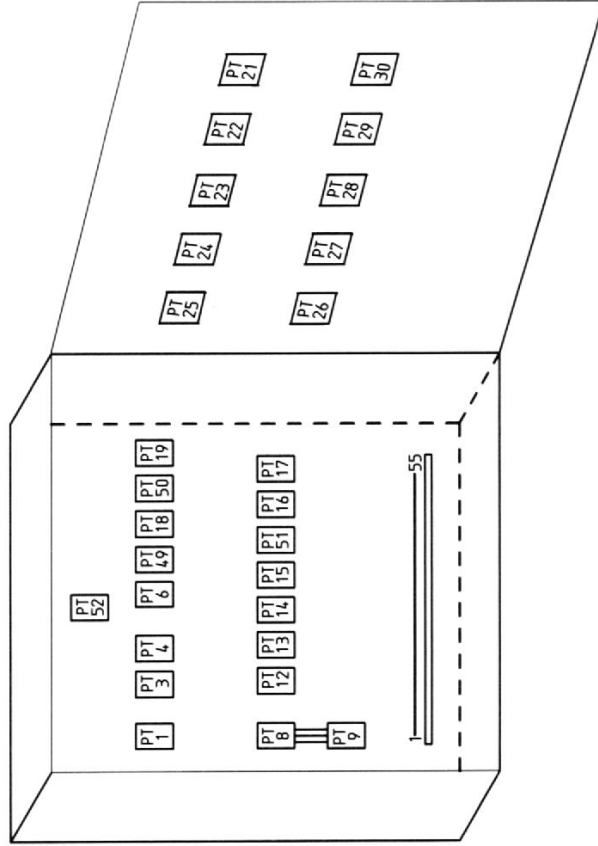
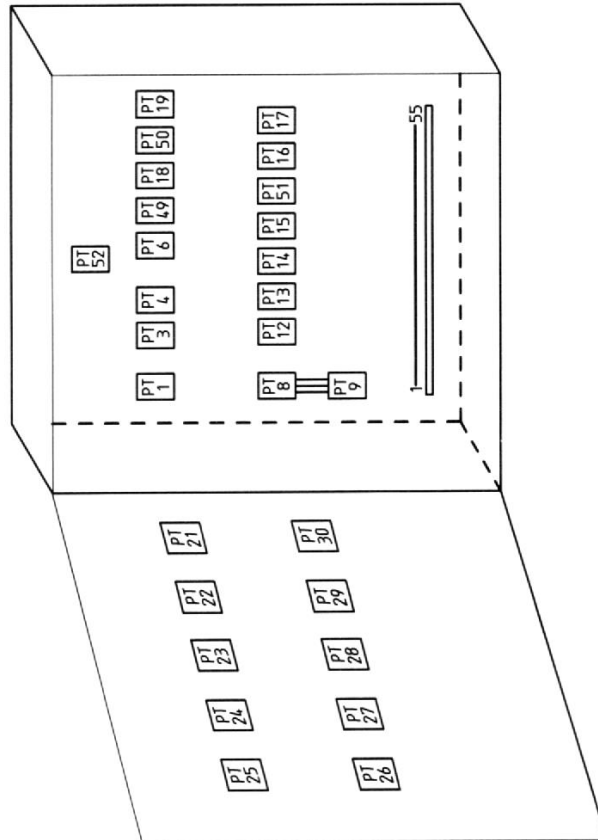
REDRAWN ON CAD 10-98  
 COPYRIGHT © 1998 - THIS DESIGN/DRAWING IS THE PROPERTY OF MOND EQUIPMENT LTD. AND MUST NOT BE REPRODUCED. COPIED.  
 NDR. ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN PERMISSION.



IF IN ANY DOUBT - ASK

L.H. PROVER

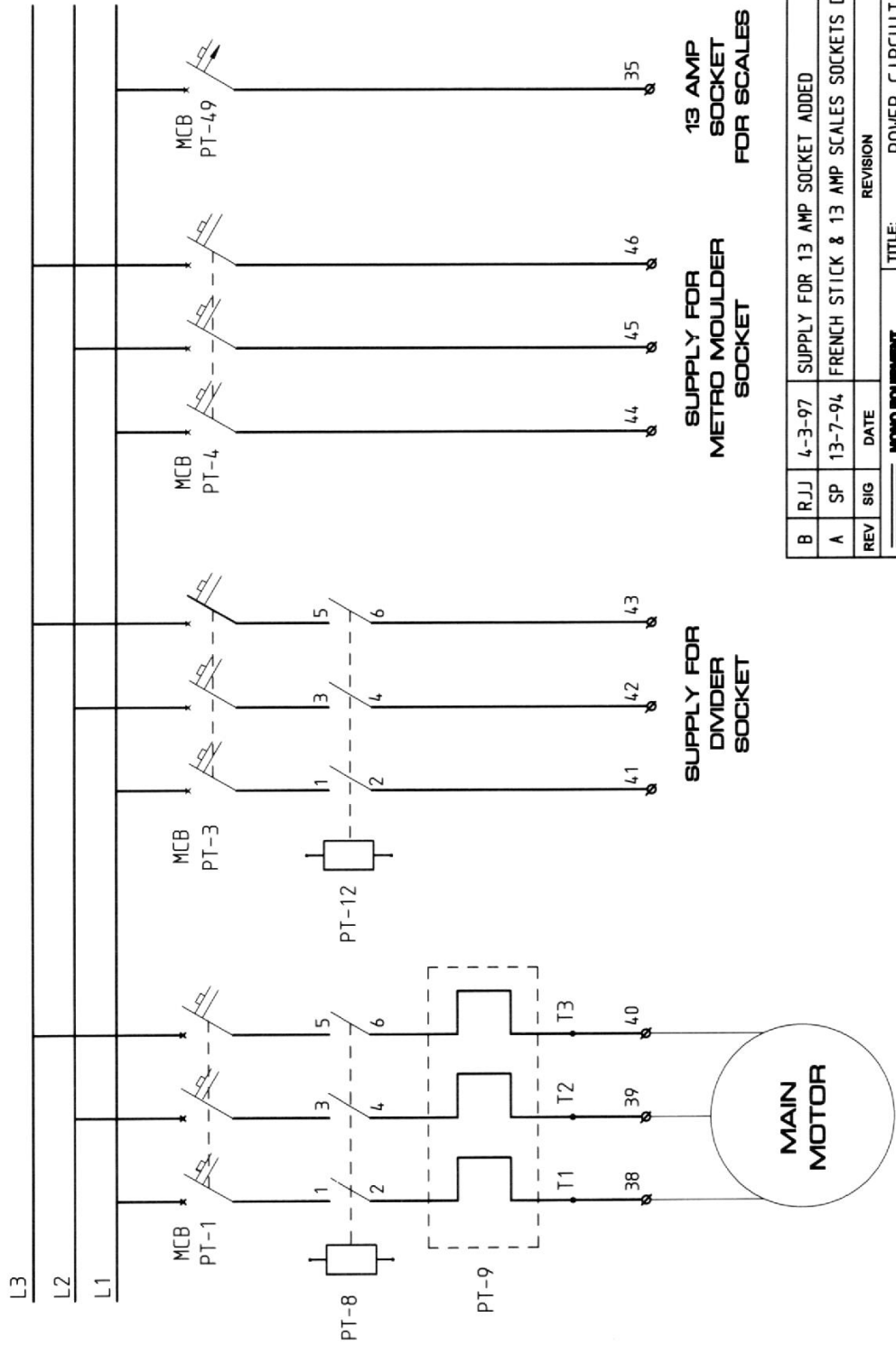
R.H. PROVER



|     |     |          |                      |         |
|-----|-----|----------|----------------------|---------|
| C   | RJJ | 4-3-97   | PT-49 ADDED          | 02/28   |
| B   | SP  | 13-7-94  | PT-5 & PT-49 DELETED | 5198    |
| A   | SP  | 23-12-93 | PT-20 & PT-7 DELETED | 4853    |
| REV | SIG | DATE     | REVISION             | ECN NO. |

|   |  |   |  |
|---|--|---|--|
| <b>MONO EQUIPMENT</b><br>QUEENSWAY<br>SWANSEA WEST IND PARK<br>SWANSEA,<br>SAS 4EB.<br>TEL: (01792) 561234<br>FAX: (01792) 561016   |  | TITLE:<br>PARK N RIDE PROVER<br>MAIN CONTROL PANEL COMPONENT<br>LAYOUT. (NO CONVEYOR) |  |
| ELECTRICAL SPECIFICATIONS:-   |  | ELECTRICALLY APPROVED BY:-  |  |
| DRAWN: RAC/JC   |  | DATE: 1-93  |  |
| REDRAWN ON CAD 10-98  |  | DRAWING NO. M036-25-10100/01  |  |
| 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. |  | REV: C  |  |

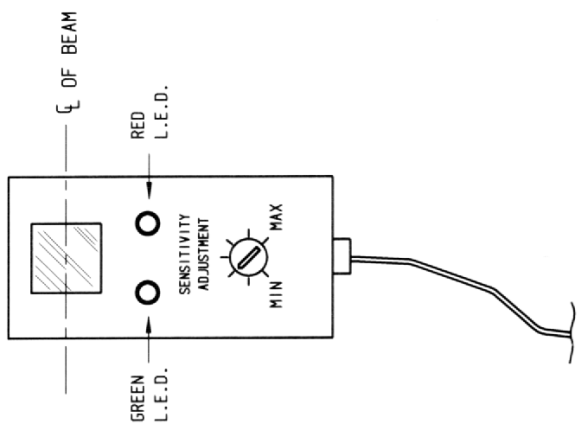
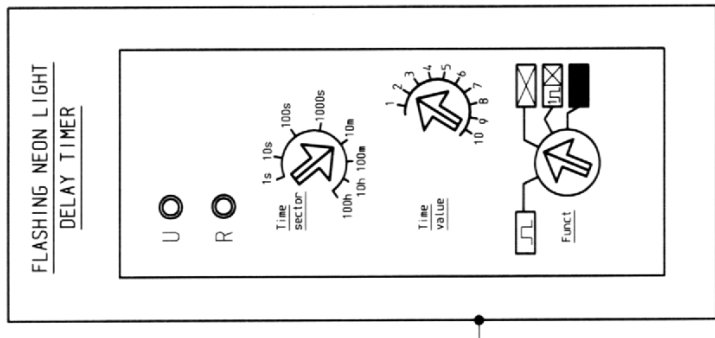
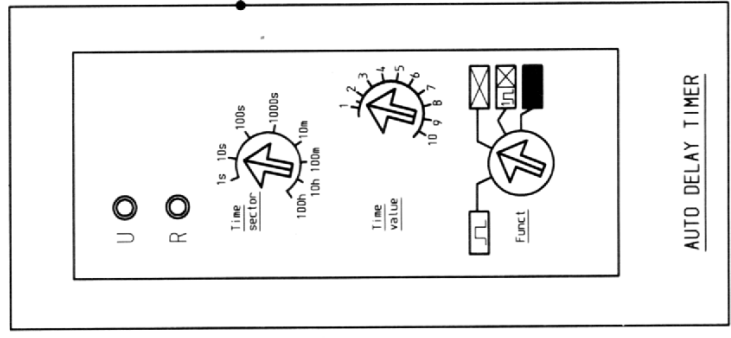
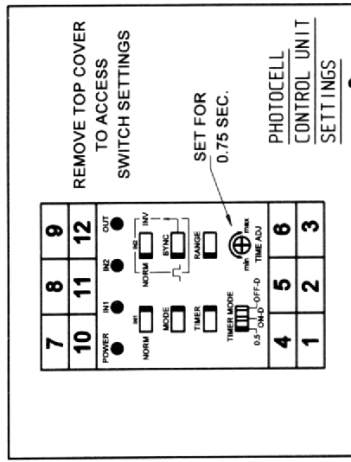
IF IN ANY DOUBT - ASK



|  |     |         |   |         |
|--|-----|---------|---|---------|
| B  | RJJ | 4-3-97  | SUPPLY FOR 13 AMP SOCKET ADDED                            | 02/28   |
| A  | SP  | 13-7-94 | FRENCH STICK & 13 AMP SCALES SOCKETS DELETED              | 5198    |
| REV  | SIG | DATE    | REVISION  | ECN NO. |
| <br>MONO EQUIPMENT<br>QUEENSWAY<br>SWANSEA WEST IND PARK<br>SWANSEA<br>SA5 4EB<br>TEL: (01792) 561234<br>FAX: (01792) 561016 |     |         | TITLE:<br>POWER CIRCUIT<br>WIRING DIAGRAM<br>NO CONVEYOR) |         |
| ELECTRICAL SPECIFICATIONS:-  |     |         | DRAWN: RAC/JC   |         |
| ELECTRICALLY APPROVED BY:-   |     |         | DATE: 1-93  |         |
| DRAWING NO. M036-25-10100  |     |         | REV: B  |         |

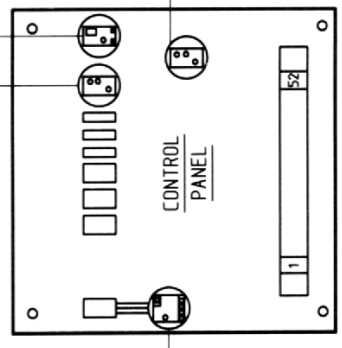
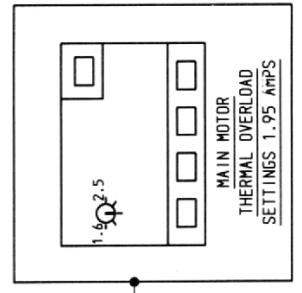
COPYRIGHT © 1998 - THIS DESIGN/DRAWING IS THE PROPERTY OF MOND EQUIPMENT LTD. AND MUST NOT BE REPRODUCED, COPIED, NOR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN PERMISSION.

**IF IN ANY DOUBT - ASK**



WHEN ALIGNING REFLECTOR TO PHOTOCELL UNIT ENSURE BOTH RED AND GREEN L.E.D.'S ARE ILLUMINATED.

**NOTE**  
REFLECTOR CAN BE MOVED VERTICALLY.

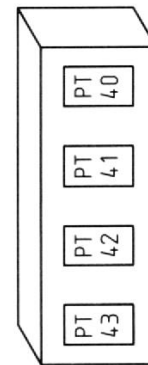
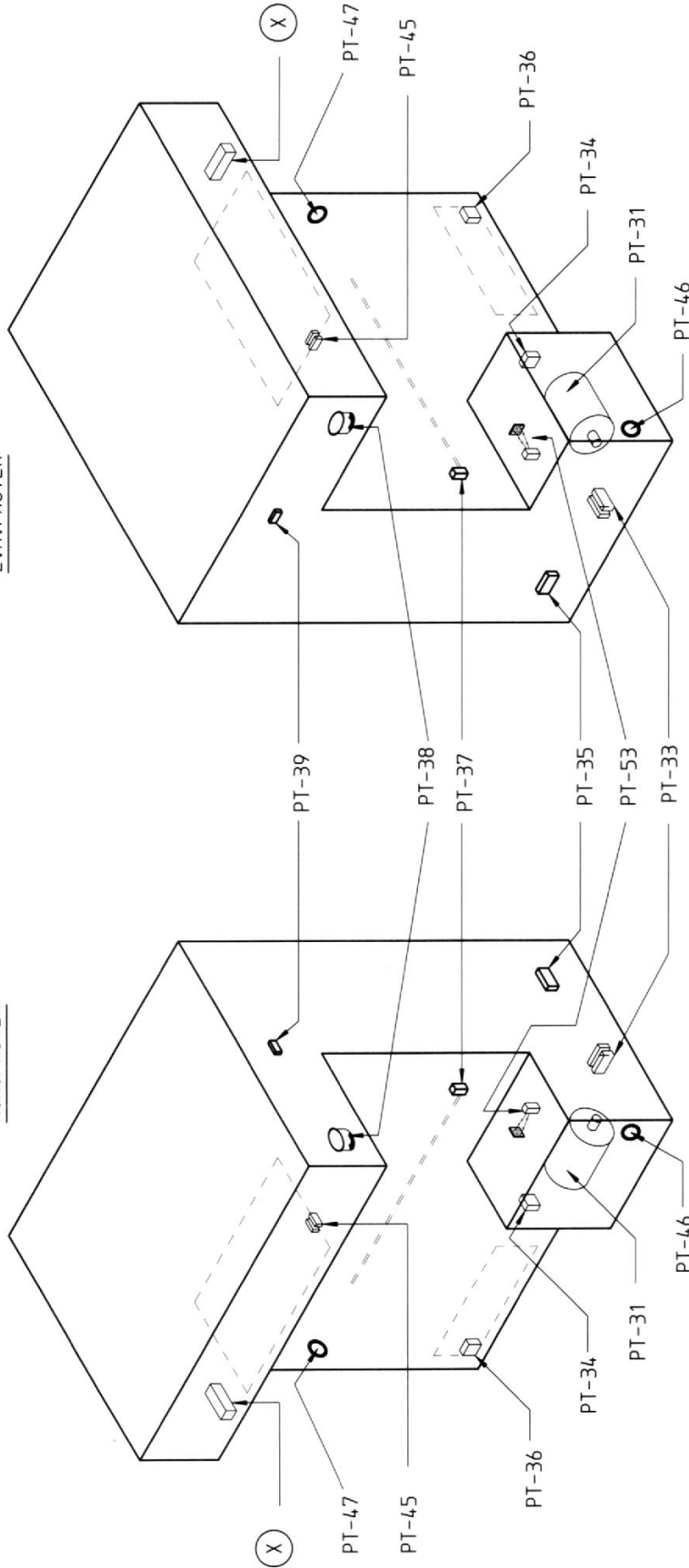


| REV   | SIG | DATE | REVISION  | ECN NO.                      |
|---|-----|------|---|------------------------------|
|   |     |      |   |                              |
| <b>MONO EQUIPMENT</b><br>QUEENSWAY<br>SWANSEA WEST IND PARK<br>WANSEA<br>AS 4EB<br>TEL: (01792) 561234<br>FAX: (01792) 561016   |     |      |   |                              |
| <b>ELECTRICAL SPECIFICATIONS:-</b>  |     |      | TITLE:<br>NEW CONTROL UNITS ADJUSTMENTS<br>PARK N RIDE PROVER | DRAWN:<br>RAC / JC           |
| REDRAWN ON CAD 10-96  |     |      | DATE:<br>14-9-90  | DRAWING NO.<br>M036-25-10100 |
| 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. |     |      | ELECTRICALLY APPROVED BY:-                                    | REV:<br>SHT 14b              |

IF IN ANY DOUBT - ASK

R.H. PROVER

L.H. PROVER



ENLARGED VIEW ON (X)

|  |     |          |                                   |         |
|--|-----|----------|-----------------------------------|---------|
| REV  | SIG | DATE     | REVISION                          | ECN NO. |
| C  | RJJ | 4-3-97   | PT-34 (SINGLE PHASE SOCKET) ADDED | 02/28   |
| B  | SP  | 13-7-94  | PT-48 & PT-34 DELETED             | 5198    |
| A  | SP  | 23-12-93 | PT-32 (TUBULAR HEATER) REMOVED    | 4853    |
| <br>MONO EQUIPMENT<br>QUEENSWAY<br>SWANSEA WEST IND PARK<br>SWANSEA,<br>SA5 4EB.<br>TEL: (01792) 561234<br>FAX: (01792) 561016 |     |          |                                   |         |
| ELECTRICAL SPECIFICATIONS:-<br>DRAWN: RAL/JC<br>DATE: 1-93<br>ELECTRICALLY APPROVED BY:-                                       |     |          |                                   |         |
| TITLE:<br>N RIDE PROVER<br>COMPONENTS LAYOUT<br>(NO CONVEYOR)  |     |          |                                   |         |
| DRAWING NO:<br>M036-25-10100/01  |     |          |                                   | REV: C  |

REDRAWN ON CAD 10-987

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.

| DRAWING<br>PT-Ref | DESCRIPTION                    | MONO<br>PART NUMBER | DRAWING<br>PT-Ref | DESCRIPTION                        | MONO<br>PART NUMBER |
|-------------------|--------------------------------|---------------------|-------------------|------------------------------------|---------------------|
| PT-1              | MAIN MOTOR M.C.B.              | 8872-22-052         | PT-24b            | CONTACT BLOCK N/C                  | 8801-14-001         |
| PT-3              | DIVIDER SOCKET M.C.B.          | 8872-22-052         | PT-24c            | "INFEED" BUTTON LEGEND             | 8801-15-015         |
| PT-4              | METRO MOULDER SOCKET M.C.B.    | 8872-22-052         | PT-25a            | AUTO BUTTON                        | 8801-12-021         |
| PT-6              | CONTROL CIRCUIT M.C.B.         | 8872-22-001         | PT-25b            | CONTACT BLOCK N/O                  | 8801-14-002         |
| PT-8              | MAIN MOTOR CONTACTOR           | 8801-08-033         | PT-25c            | "AUTO" BUTTON LEGEND               | 8801-15-016         |
| PT-9              | MAIN MOTOR THERMAL OVERLOAD    | 8801-01-043         | PT-26a            | DRIVE BOX INDICATOR LIGHT BODY     | 8801-43-012         |
| PT-12             | DIVIDER SOCKET CONTACTOR       | 8801-08-033         | PT-26b            | DRIVE BOX INDICATOR LIGHT LENS     | 8801-44-002         |
| PT-13a            | STOP/START RELAY               | 8723-37-006         | PT-26c            | "DRIVE BOX" INDICATOR LIGHT LEGEND | 8801-15-005         |
| PT-13b            | STOP/START RELAY BASE          | 8723-36-001         | PT-27a            | CLEANING DOOR INDICATOR LIGHT BODY | 8801-43-012         |
| PT-14a            | DELAYED STOP RELAY             | 8723-37-006         | PT-27b            | CLEANING DOOR INDICATOR LIGHT LENS | 8801-44-002         |
| PT-14b            | DELAYED STOP RELAY BASE        | 8723-36-001         | PT-27c            | "CLEANING DOOR" LIGHT LEGEND       | 8801-15-006         |
| PT-15a            | PHOTOCELL RELAY                | 8723-37-006         | PT-28a            | SAFETY BAR INDICATOR LIGHT BODY    | 8801-43-012         |
| PT-15b            | PHOTOCELL RELAY BASE           | 8723-36-001         | PT-28b            | SAFETY BAR INDICATOR LIGHT LENS    | 8801-44-002         |
| PT-16a            | AUTO RELAY N'1                 | 8723-37-009         | PT-28c            | "SAFETY BAR" LIGHT LEGEND          | 8801-15-007         |
| PT-16b            | AUTO RELAY N'1 BASE            | 8723-36-002         | PT-29a            | CARRIER STOP INDICATOR LIGHT BODY  | 8801-43-012         |
| PT-17a            | AUTO RELAY N'2                 | 8723-37-009         | PT-29b            | CARRIER STOP INDICATOR LIGHT LENS  | 8801-44-002         |
| PT-17b            | AUTO RELAY N'2 BASE            | 8723-36-002         | PT-29c            | "CARRIER STOP" LIGHT LEGEND        | 8801-15-008         |
| PT-18             | XENON LIGHT DELAY TIMER        | 8842-34-003         |                   |                                    |                     |
| PT-19             | PHOTO CELL CONTROLLER UNIT     | 8822-99-008         |                   |                                    |                     |
| PT-21a            | EMERGENCY STOP BUTTON          | 8801-12-015         |                   |                                    |                     |
| PT-21b            | CONTACT BLOCK N/C              | 8801-14-001         |                   |                                    |                     |
| PT-21c            | "EMERGENCY STOP" BUTTON LEGEND | 8801-15-003         |                   |                                    |                     |
| PT-22a            | START BUTTON                   | 8801-12-002         |                   |                                    |                     |
| PT-22b            | START BUTTON N/C CONTACT BLOCK | 8801-14-001         |                   |                                    |                     |
| PT-22c            | START BUTTON N/O CONTACT BLOCK | 8801-14-004         |                   |                                    |                     |
| PT-22d            | "START" BUTTON LEGEND          | 8801-15-002         |                   |                                    |                     |
| PT-23a            | DELAYED STOP BUTTON            | 8801-12-001         |                   |                                    |                     |
| PT-23b            | CONTACT BLOCK N/C              | 8801-14-001         |                   |                                    |                     |
| PT-23c            | CONTACT BLOCK N/O              | 8801-14-004         |                   |                                    |                     |
| PT-23d            | "DELAYED STOP" BUTTON LEGEND   | 8801-15-010         |                   |                                    |                     |
| PT-24a            | INFEED BUTTON                  | 8801-12-021         |                   |                                    |                     |

|  |       |         |   |           |       |
|--|-------|---------|---|-----------|-------|
| F  | JC    | 20-6-07 | 8801-08-001 was 8859-08-033; 8801-01-044 was 8859-01-001  | 3008      |       |
| E  | JC    | 6-3-03  | PT19 WAS 8822-99-008. NEW PHOTOCELL UNIT  | 1953      |       |
| D  | JC    | 8-9-98  | 8723-37-006 WAS 8822-37-001; 8723-36-001 WAS 8822-36-005; 8723-37-009 WAS 8822-37-005; 8723-36-002 WAS 8822-36-008. 8822-38-003 DELETED | 07/98     |       |
| C  | JC    | 3-3-97  | PT34 & 49 REPLACED.   | 02/28     |       |
| B  | S.P   | 13-7-94 | PT34, 49 & 51 FRENCH STICK MOULDER SOCKET HCB DELETED   | 5198      |       |
| A  | GO/PB | 23-7-93 | PT32, HEATER & ASSOC'D ITEMS DELETED.   | 4.853     |       |
| REV  | SIG   | DATE    | REVISION  | ECN NO.   |       |
| <p>MONO EQUIPMENT<br/>QUEENSWAY<br/>SWANSEA WEST IND PARK<br/>SWANSEA, SAS 4EB.<br/>TEL: (01792) 561234<br/>FAX: (01792) 561016<br/>Email: engineering@monoequip.com</p> <p><b>MONO</b></p> <p>ELECTRICAL SPECIFICATIONS:-</p> <p>DRAWN: RAC/JC</p> <p>TITLE: COMPONENT LIST FOR PARK n RIDE PROVER, NO CONVEYOR</p> <p>ELECTRICALLY APPROVED BY:-</p> |       |         |   |           |       |
| DRAWING NO. M036E25-10100  |       |         |   | SHEET 12a | REV F |
| DATE: 8-9-98   |       |         |   |           |       |

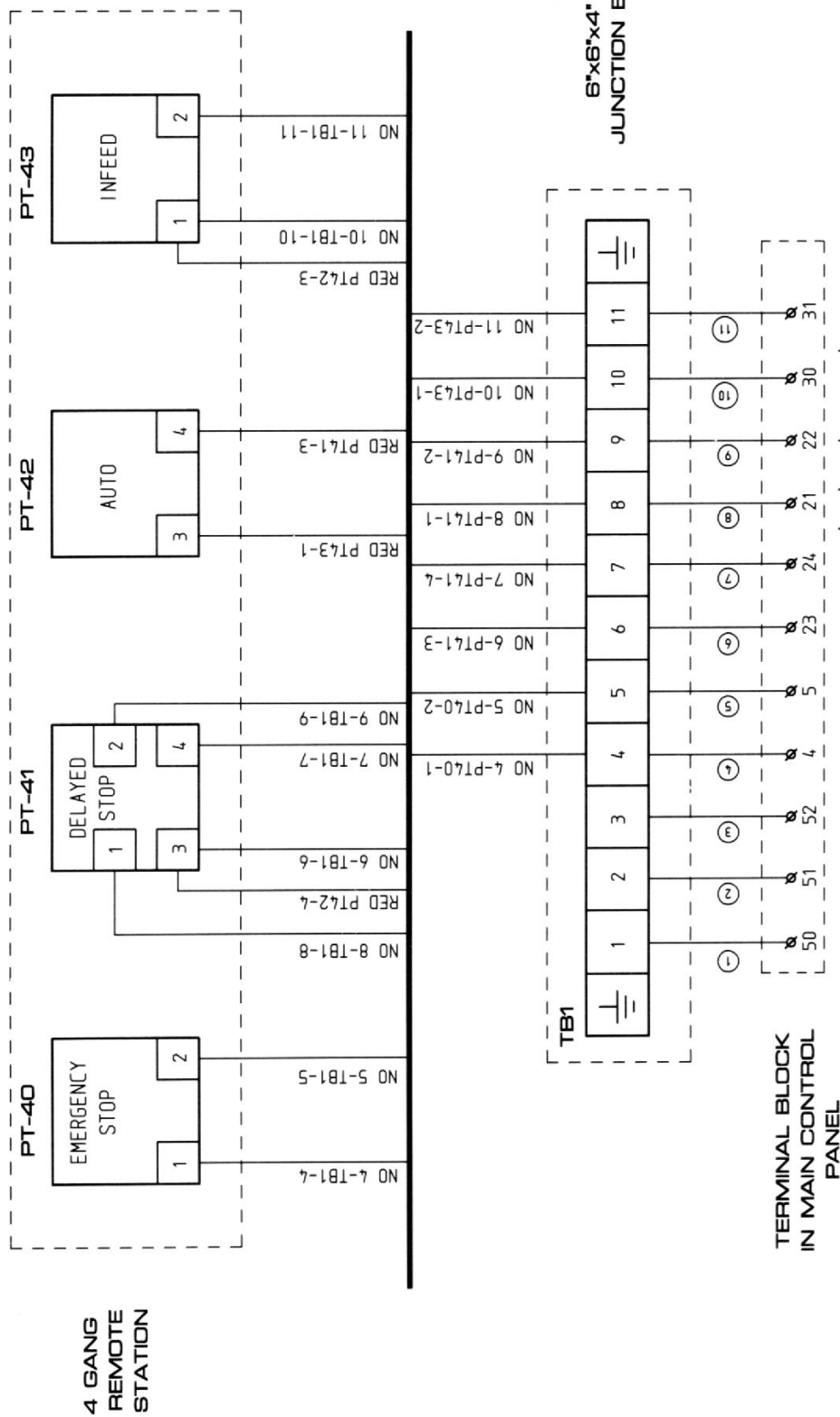
Copyright © 1998 - THIS DESIGN/DRAWING IS THE PROPERTY OF MONO EQUIPMENT LTD., AND MUST NOT BE REPRODUCED, COPIED, NOR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN PERMISSION.

| <u>DRAWING</u><br>PT-Ref | <u>DESCRIPTION</u>               | <u>MONO</u><br><u>PART NUMBER</u> | <u>DESCRIPTION</u> | <u>MONO</u><br><u>PART NUMBER</u> |
|--------------------------|----------------------------------|-----------------------------------|--------------------|-----------------------------------|
| PT-30a                   | ACCESS DOOR INDICATOR LIGHT BODY | B801-43-012                       | PT-45              | ACCESS DOOR SAFETY SWITCH         |
| PT-30b                   | ACCESS DOOR INDICATOR LIGHT LENS | B801-44-002                       | PT-46              | DIVIDER SOCKET                    |
| PT-30c                   | *ACCESS DOOR* LIGHT LEGEND       | B801-15-009                       | PT-47              | METRO MOULDER SOCKET              |
| PT-31                    | MAIN DOOR                        | B917-74-008                       | PT-48              | FRENCH STICK MOULDER SOCKET       |
| PT-33                    | DRIVE BOX SAFETY SWITCH          | B818-07-010                       | PT-49              | SINGLE PHASE SOCKET M.C.B.        |
| PT-34                    | SINGLE PHASE SOCKET OUTLET       | B711-06-001                       | PT-50              | AUTO DELAY TIMER                  |
| PT-35                    | INDEX SWITCH                     | B801-11-001                       | PT-51              | INDEX RELAY                       |
| PT-36                    | CLEANING DOOR SAFETY SWITCH      | B863-07-001                       | PT-52              | MAIN PANEL DOOR INTERLOCK SWITCH  |
| PT-37                    | SAFETY BAR SAFETY SWITCH         | B801-11-001                       | PT-53              | PHOTO CELL UNIT                   |
| PT-38                    | XENON FLASHING BEACON            | B842-43-003                       |                    |                                   |
| PT-39a                   | CARRIER STOP SAFETY SWITCH BODY  | B801-11-005                       |                    |                                   |
| PT-39b                   | CARRIER STOP SWITCH ACTUATOR     | B801-43-004                       |                    |                                   |
| PT-40a                   | REMOTE EMERGENCY STOP BUTTON     | B801-12-015                       |                    |                                   |
| PT-40b                   | CONTACT BLOCK N/C                | B801-14-001                       |                    |                                   |
| PT-40c                   | EMERGENCY STOP LEGEND            | B801-15-003                       |                    |                                   |
| PT-41a                   | REMOTE DELAYED STOP BUTTON       | B801-12-001                       |                    |                                   |
| PT-41b                   | CONTACT BLOCK N/C                | B801-14-001                       |                    |                                   |
| PT-41c                   | CONTACT BLOCK N/O                | B801-14-002                       |                    |                                   |
| PT-41d                   | DELAYED STOP BUTTON LEGEND       | B801-15-010                       |                    |                                   |
| PT-42a                   | REMOTE AUTO BUTTON               | B801-12-021                       |                    |                                   |
| PT-42b                   | CONTACT BLOCK N/O                | B801-14-002                       |                    |                                   |
| PT-42c                   | AUTO BUTTON LEGEND               | B801-15-016                       |                    |                                   |
| PT-43a                   | REMOTE INFEEED BUTTON            | B801-12-021                       |                    |                                   |
| PT-43b                   | CONTACT BLOCK N/C                | B801-14-001                       |                    |                                   |
| PT-43c                   | INFEEED BUTTON LEGEND            | B801-15-015                       |                    |                                   |

|  |       |         |   |         |
|--|-------|---------|---|---------|
| E  | JC    | 6-3-03  | SEE SHEET 12a   | 1953    |
| D  | JC    | 8-9-98  | B723-37-006 WAS B822-37-001;B723-36-001 WAS B822-36-005;<br>B723-37-009 WAS B822-37-005;B723-36-002 WAS B822-36-008,<br>B822-38-003 DELETED | 07/98   |
| C  | JC    | 3-3-97  | PARTS 34 & 49 REPLACED.   | 02/28   |
| B  | S.P   | 13-7-94 | PT34,49 & 5(FRENCH STICK MOULDER SOCKET MCB) DELETED  | 5198    |
| A  | GD/PB | 23-7-93 | PT32. HEATER & ASSOC'D ITEMS DELETED. (REDRAWN)   | 4853    |
| REV  | SIG   | DATE    | REVISION  | ECN NO. |
| <p>MONO EQUIPMENT<br/>QUEENSWAY<br/>SWANSEA WEST IND PARK<br/>SWANSEA, SA5 4EB.<br/>TEL: (01792) 561234<br/>FAX: (01792) 561016<br/>Email: engineering@monoequip.com</p> <p>ELECTRICAL SPECIFICATIONS:-</p> <p>TITLE:<br/>COMPONENT LIST<br/>PROVER.NO CONVEYOR<br/>PARK n RIDE</p> <p>DRAWN:<br/>RAC/JC<br/>ELECTRICALLY APPROVED BY:-<br/>P. BOYLES</p> <p>DATE:<br/>8-9-98<br/>DRAWING NO.<br/>M036E25-10100<br/>SHEET 12b<br/>REV:<br/>E</p> |       |         |   |         |

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.

IF IN ANY DOUBT - ASK

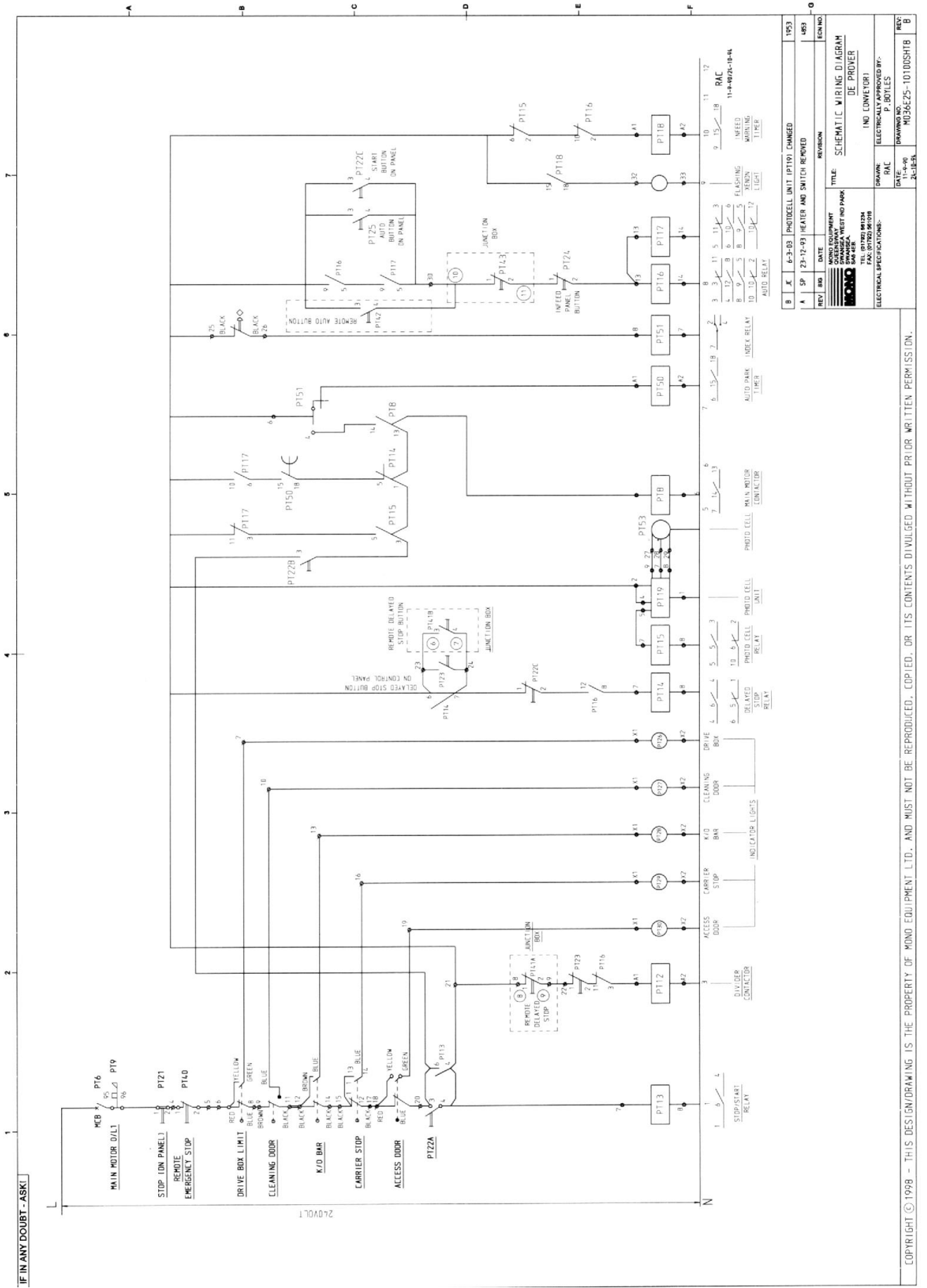


TERMINAL BLOCK  
IN MAIN CONTROL  
PANEL

6"x6"x4"  
JUNCTION BOX

| REV   | SIG | DATE | REVISION  | ECN NO. |
|---|-----|------|---|---------|
|   |     |      |   |         |
| <p><b>MONO EQUIPMENT</b><br/>QUEENSWAY<br/>SWANSEA WEST IND PARK<br/>SWANSEA,<br/>SA5 4EB<br/>TEL: (01792) 561234<br/>FAX: (01792) 561016</p> |     |      |   |         |
| <p>TITLE:<br/>REMOTE STATION/JUNCTION BOX<br/>WIRING DIAGRAM<br/>(NO CONVEYOR)</p>  |     |      | <p>DRAWN:<br/>RAC / JC<br/>ELECTRICALLY APPROVED BY:-</p> |         |
| <p>DATE:<br/>1-93</p>   |     |      | <p>DRAWING NO.<br/>M036-25-10100</p>                      |         |
| <p>REDRAWN ON CAD 10-98</p>   |     |      | <p>SHT 13<br/>REV: —</p>                                  |         |

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.







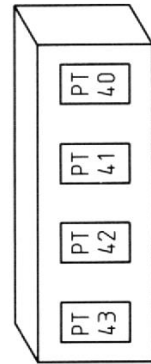
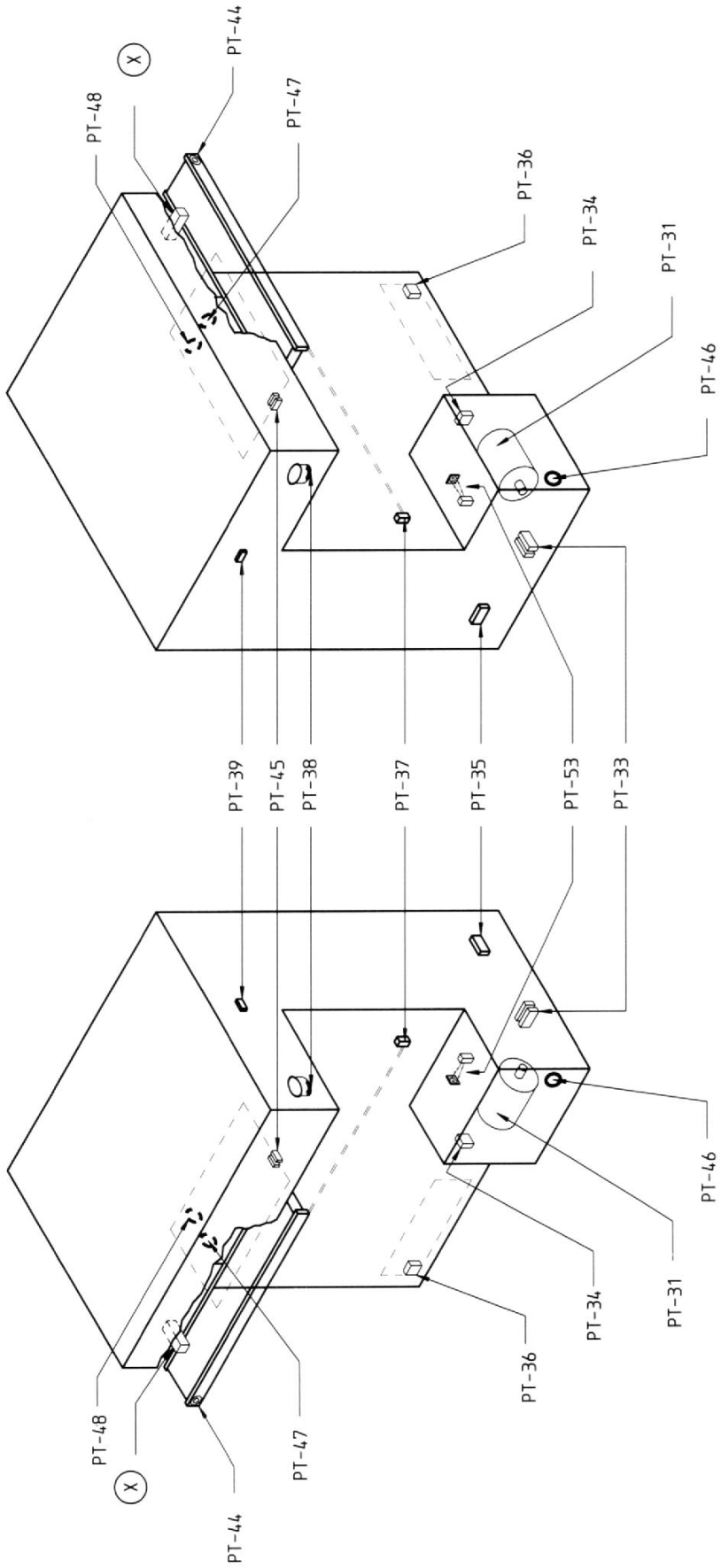
## **9.0 ELECTRICAL INFORMATION**

**(WITH CONVEYOR)**

IF IN ANY DOUBT - ASK

R.H. PROVER


L.H. PROVER



ENLARGED VIEW ON (X)

|  |     |          |   |         |
|--|-----|----------|---|---------|
| REV  | SIG | DATE     | REVISION  | ECN NO. |
| A  | SP  | 23-12-93 | PT-32 (TUBULAR HEATER) REMOVED  | 4853    |
| <p><b>MONO EQUIPMENT</b><br/>         QUEENSWAY<br/>         SWANSEA WEST IND PARK<br/>         SWANSEA,<br/>         SA5 4EB.<br/>         TEL: (01792) 561234<br/>         FAX: (01792) 561016</p> |     |          |   |         |
| <p><b>MONO EQUIPMENT</b><br/>         QUEENSWAY<br/>         SWANSEA WEST IND PARK<br/>         SWANSEA,<br/>         SA5 4EB.<br/>         TEL: (01792) 561234<br/>         FAX: (01792) 561016</p> |     |          | <p>TITLE:<br/>         PARK N RIDE PROVER<br/>         COMPONENTS LAYOUT<br/>         (WITH CONVEYOR)</p> |         |
| <p>ELECTRICAL SPECIFICATIONS:-</p>   |     |          | <p>DRAWN:<br/>         RAC/JC</p>   |         |
| <p>REDRAWN ON CAD 10-987</p>   |     |          | <p>DATE:<br/>         13-9-90</p>   |         |
| <p>COPYRIGHT © 1998 - THIS DESIGN/DRAWING IS THE PROPERTY OF MONO EQUIPMENT LTD. AND MUST NOT BE REPRODUCED, COPIED, NDR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN PERMISSION.</p>                 |     |          | <p>DRAWING NO.<br/>         M036-25-10000/01</p>  |         |
| <p>REVISION</p>  |     |          | <p>SHT 1</p>  |         |
| <p>REV: A</p>  |     |          | <p>REV: A</p>   |         |


| DRAWING<br>PT-Ref | DESCRIPTION                        | MONO<br>PART NUMBER | DRAWING<br>PT-Ref | DESCRIPTION                        | MONO<br>PART NUMBER |
|-------------------|------------------------------------|---------------------|-------------------|------------------------------------|---------------------|
| PT-1              | MAIN MOTOR M.C.B.                  | 8872-22-052         | PT-23a            | DELAY STOP BUTTON                  | 8801-12-001         |
| PT-2              | CONVEYOR MOTOR M.C.B.              | 8872-22-051         | PT-23b            | CONTACT BLOCK N/C                  | 8801-14-001         |
| PT-3              | DIVIDER SOCKET M.C.B.              | 8872-22-052         | PT-23c            | CONTACT BLOCK N/O                  | 8801-14-004         |
| PT-4              | METRO MOULDER SOCKET M.C.B.        | 8872-22-052         | PT-23d            | "DELAYED STOP" BUTTON LEGEND       | 8801-15-010         |
| PT-5              | FRENCH STICK MOULDER SOCKET M.C.B. | 8872-22-052         | PT-24a            | INFEED BUTTON                      | 8801-12-021         |
| PT-6              | CONTROL SOCKET M.C.B.              | 8872-22-001         | PT-24b            | CONTACT BLOCK N/C                  | 8801-14-001         |
| PT-8              | MAIN MOTOR CONTACTOR               | 8801-08-033         | PT-24c            | "INFEED" BUTTON LEGEND             | 8801-15-015         |
| PT-9              | MAIN MOTOR THERMAL OVERLOAD        | 8801-01-043         | PT-25a            | AUTO BUTTON                        | 8801-12-021         |
| PT-10             | CONVEYOR FORWARD CONTACTOR         | 8801-08-033         | PT-25b            | CONTACT BLOCK N/O                  | 8801-14-002         |
| PT-11             | CONVEYOR MOTOR THERMAL OVERLOAD    | 8801-01-044         | PT-25c            | "AUTO" BUTTON LEGEND               | 8801-15-016         |
| PT-12             | DIVIDER SOCKET CONTACTOR           | 8801-08-033         | PT-26a            | DRIVE BOX INDICATOR LIGHT BODY     | 8801-43-012         |
| PT-13a            | STOP/START RELAY                   | 8723-37-006         | PT-26b            | DRIVE BOX INDICATOR LIGHT LENS     | 8801-44-002         |
| PT-13b            | STOP/START RELAY BASE              | 8723-36-001         | PT-26c            | "DRIVE BOX" INDICATOR LIGHT LEGEND | 8801-15-005         |
| PT-14a            | DELAYED STOP RELAY                 | 8723-37-006         | PT-27a            | CLEANING DOOR INDICATOR LIGHT BODY | 8801-43-012         |
| PT-14b            | DELAYED STOP RELAY BASE            | 8723-36-001         | PT-27b            | CLEANING DOOR INDICATOR LIGHT LENS | 8801-44-002         |
| PT-15a            | PHOTOCELL RELAY                    | 8723-37-006         | PT-27c            | "CLEANING DOOR" LIGHT LEGEND       | 8801-15-006         |
| PT-15b            | PHOTOCELL RELAY BASE               | 8723-36-001         | PT-28a            | SAFETY BAR INDICATOR LIGHT BODY    | 8801-43-012         |
| PT-16a            | AUTO RELAY N'1                     | 8723-37-009         | PT-28b            | SAFETY BAR INDICATOR LIGHT LENS    | 8801-44-002         |
| PT-16b            | AUTO RELAY N'1 BASE                | 8723-36-002         | PT-28c            | "SAFETY BAR" LIGHT LEGEND          | 8801-15-007         |
| PT-17a            | AUTO RELAY N'2                     | 8723-37-009         |                   |                                    |                     |
| PT-17b            | AUTO RELAY N'2 BASE                | 8723-36-002         |                   |                                    |                     |
| PT-18             | XENON LIGHT DELAY TIMER            | 8843-34-003         |                   |                                    |                     |
| PT-19             | PHOTOCELL CONTROLLER UNIT          | 8822-99-008         |                   |                                    |                     |
| PT-21a            | EMERGENCY STOP BUTTON              | 8801-12-015         |                   |                                    |                     |
| PT-21b            | CONTACT BLOCK N/C                  | 8801-14-001         |                   |                                    |                     |
| PT-21c            | "EMERGENCY STOP" BUTTON LEGEND     | 8801-15-003         |                   |                                    |                     |
| PT-22a            | START BUTTON                       | 8801-12-002         |                   |                                    |                     |
| PT-22b            | START BUTTON N/C CONTACT BLOCK     | 8801-14-001         |                   |                                    |                     |
| PT-22c            | START BUTTON N/O CONTACT BLOCK     | 8801-14-004         |                   |                                    |                     |
| PT-22d            | "START" BUTTON LEGEND              | 8801-15-002         |                   |                                    |                     |

|   |       |         |  |         |
|---|-------|---------|--|---------|
| F   | JC    | 20-6-07 | B801-06-001 was B859-08-033; B801-01-043 was B859-01-043   | 3008    |
| E   | JC    | 6-3-03  | B801-01-044 was B859-01-001  | 1953    |
| D   | JC    | 8-9-98  | PT19 WAS B822-99-002 NEW PHOTOCELL UNIT<br>B723-37-006 WAS B822-37-001; B723-36-001 WAS B822-36-005;<br>B723-37-009 WAS B822-37-005; B723-36-002 WAS B822-36-008.<br>B822-36-003 DELETED | 07/98   |
| C   | GO/PR | 23-7-93 | PT32, HEATER & ASSOC'D ITEMS DELETED.  | 4853    |
| REV   | SIG   | DATE    | REVISION   | ECN NO. |
|  <p>MONO EQUIPMENT<br/>QUEENSWAY<br/>SWANSEA WEST IND PARK<br/>SWANSEA SA5 4EB.<br/>TEL: (01782) 581234<br/>FAX: (01782) 581016<br/>Email: engineering@monoequip.com</p> |       |         |  |         |
| TITLE:<br>COMPONENT LIST FOR PARK n RIDE PROVER   |       |         |  |         |
| DRAWN:<br>RAC / JC  |       |         | ELECTRICALLY APPROVED BY:-   |         |
| DATE:<br>8-9-98   |       |         | DRAWING NO.<br>M036E25-10000   |         |
|   |       |         | REV:<br>F  |         |

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.

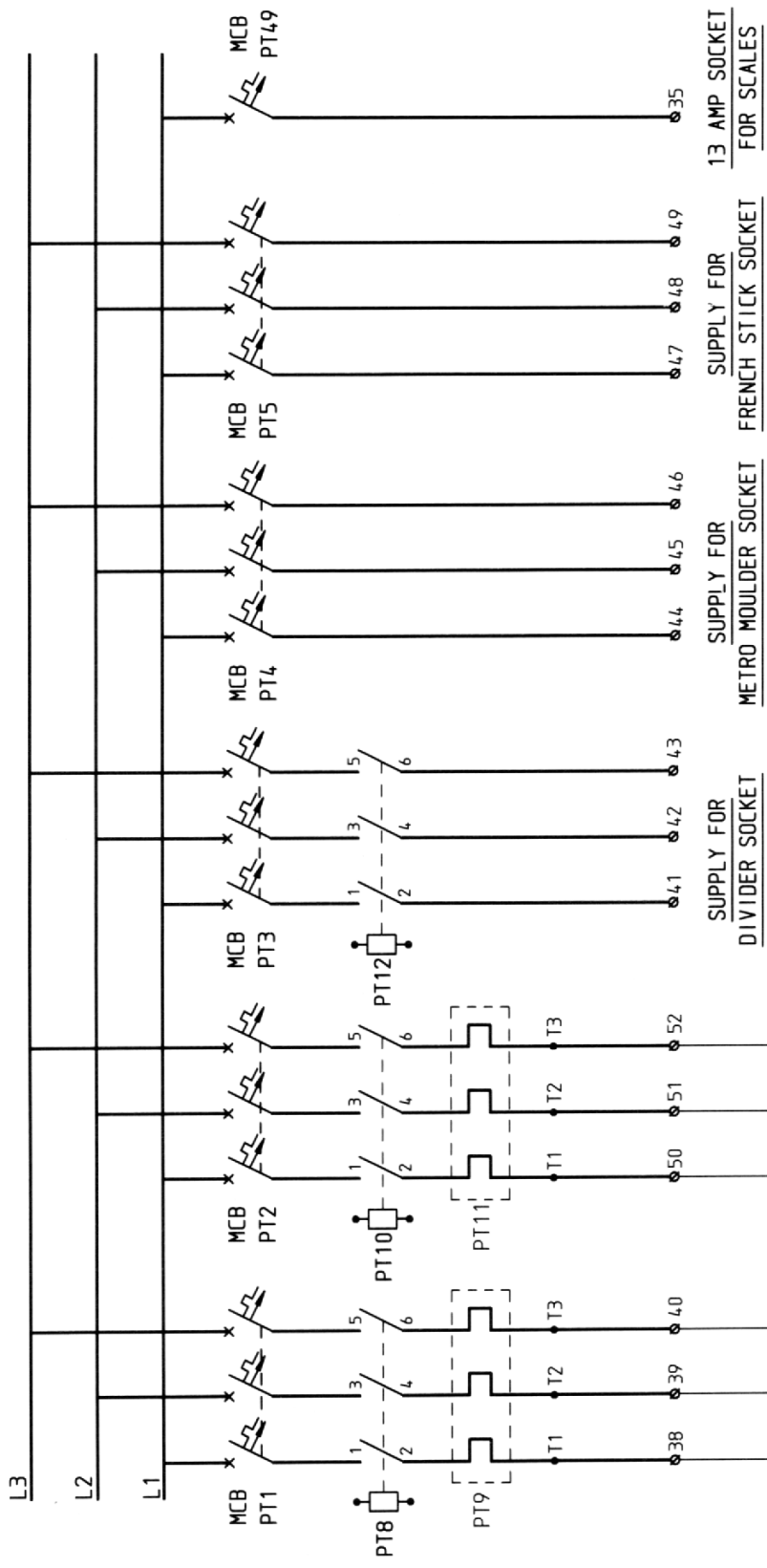
| <u>DRAWING</u> |                                   | <u>DESCRIPTION</u> | <u>MONO</u>        | <u>DRAWING</u> | <u>DESCRIPTION</u>                            | <u>MONO</u>        |
|----------------|-----------------------------------|--------------------|--------------------|----------------|---|--------------------|
| <u>PT-Ref</u>  |                                   |                    | <u>PART NUMBER</u> | <u>PT-Ref</u>  |   | <u>PART NUMBER</u> |
| PT-29a         | CARRIER STOP INDICATOR LIGHT BODY |                    | B801-43-012        | PT-46          | DIVIDER SOCKET                                | B813-06-001        |
| PT-29b         | CARRIER STOP INDICATOR LIGHT LENS |                    | B801-44-002        | PT-47          | METRO MOULDER SOCKET                          | B813-06-001        |
| PT-29c         | *CARRIER STOP* LIGHT LEGEND       |                    | B801-15-008        | PT-48          | FRENCH STICK MOULDER SOCKET                   | B813-06-001        |
| PT-30a         | ACCESS DOOR INDICATOR LIGHT BODY  |                    | B801-43-012        | PT-49          | SINGLE PHASE SOCKET M.C.B.                    | B872-22-002        |
| PT-30b         | ACCESS DOOR INDICATOR LIGHT LENS  |                    | B801-44-002        | PT-50          | AUTO DELAY TIMER                              | B842-34-003        |
| PT-30c         | *ACCESS DOOR* LIGHT LEGEND        |                    | B801-15-009        | PT-51          | INDEX RELAY                                   | B723-37-006        |
| PT-31          | MAIN MOTOR                        |                    | B917-74-008        | PT-52          | MAIN PANEL DOOR INTERLOCK SWITCH              | B807-07-007        |
| PT-33          | DRIVE BOX SAFETY SWITCH           |                    | B818-07-010        | PT-53          | PHOTOCELL UNIT                                | B822-99-003        |
| PT-34          | SINGLE PHASE SOCKET OUTLET        |                    | B835-06-001        | PT-54          | CONVEYOR REVERSE CONTACTOR                    | B859-08-024        |
| PT-35          | INDEX SWITCH                      |                    | B801-11-001        | PT-55a         | CONVEYOR FORWARD/REVERSE SWITCH               | B801-12-011        |
| PT-36          | CLEANING DOOR SAFETY SWITCH       |                    | B863-07-001        | PT-55b         | CONVEYOR FORWARD/REVERSE SWITCH CONTACT BLOCK | B801-14-005        |
| PT-37          | SAFETY BAR SAFETY SWITCH          |                    | B801-11-001        | PT-55c         | CONVEYOR SWITCH LEGEND                        | B801-15-012        |
| PT-38          | XENON FLASHING BEACON             |                    | B842-43-003        | PT-55d         | CONVEYOR SWITCH ENCLOSURE                     | B801-09-011        |
| PT-39a         | CARRIER STOP SAFETY SWITCH BODY   |                    | B801-11-005        |                |   |                    |
| PT-39b         | CARRIER STOP SWITCH ACTUATOR      |                    | B801-43-004        |                |   |                    |
| PT-40a         | REMOTE EMERGENCY STOP BUTTON      |                    | B801-12-015        |                |   |                    |
| PT-40b         | CONTACT BLOCK N/C                 |                    | B801-14-001        |                |   |                    |
| PT-40c         | EMERGENCY STOP LEGEND             |                    | B801-15-003        |                |   |                    |
| PT-41a         | REMOTE DELAYED STOP BUTTON        |                    | B801-12-001        |                |   |                    |
| PT-41b         | CONTACT BLOCK N/C                 |                    | B801-14-001        |                |   |                    |
| PT-41c         | CONTACT BLOCK N/O                 |                    | B801-14-002        |                |   |                    |
| PT-41d         | DELAYED STOP BUTTON LEGEND        |                    | B801-15-010        |                |   |                    |
| PT-42a         | REMOTE AUTO BUTTON                |                    | B801-12-021        |                |   |                    |
| PT-42b         | CONTACT BLOCK N/O                 |                    | B801-14-002        |                |   |                    |
| PT-42c         | AUTO BUTTON LEGEND                |                    | B801-15-016        |                |   |                    |
| PT-43a         | REMOTE INFEEED BUTTON             |                    | B801-12-021        |                |   |                    |
| PT-43b         | CONTACT BLOCK N/C                 |                    | B801-14-001        |                |   |                    |
| PT-43c         | INFEEED BUTTON LEGEND             |                    | B801-15-015        |                |   |                    |
| PT-44          | CONVEYOR MOTOR                    |                    | B949-74-001        |                |   |                    |
| PT-45          | ACCESS DOOR SAFETY SWITCH         |                    | B818-07-010        |                |   |                    |

|  |       |         |   |         |
|--|-------|---------|---|---------|
| E  | JC    | 6-3-03  | SEE SHT 12a   | 1953    |
| D  | JC    | 8-9-98  | B723-37-006 WAS B822-37-001; B723-36-001 WAS B822-36-005;<br>B723-37-009 WAS B822-37-005; B723-36-002 WAS B822-36-008.<br>B822-38-003 DELETED | 07/98   |
| C  | GO/PB | 23-7-93 | PT32, HEATER & ASSOC'D ITEMS DELETED.   | 4653    |
| REV  | SIG   | DATE    | REVISION  | ECN NO. |
|  <p>MONO EQUIPMENT<br/>QUEENSWAY<br/>SWANSEA WEST IND PARK<br/>SWANSEA, SA5 4EB.<br/>TEL: (01792) 661234<br/>FAX: (01792) 661016<br/>Email: engineering@monoequip.com</p> |       |         |   |         |
| TITLE:<br>COMPONENT LIST PARK n RIDE PROVER  |       |         |   |         |
| ELECTRICAL SPECIFICATIONS:-<br>DRAWN: ELECTRICALLY APPROVED BY:-<br>RAC/JC P. BOYLES   |       |         |   |         |
| DATE: 8-9-98<br>DRAWING NO. M036E25-10000<br>SHEET 2b<br>REV: E  |       |         |   |         |

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.

IF IN ANY DOUBT - ASK

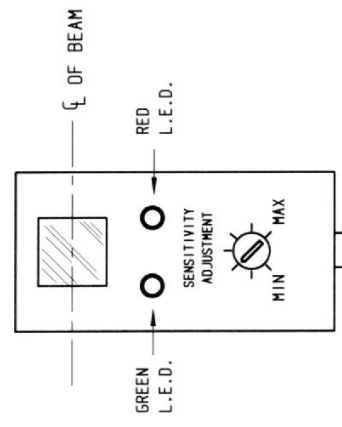
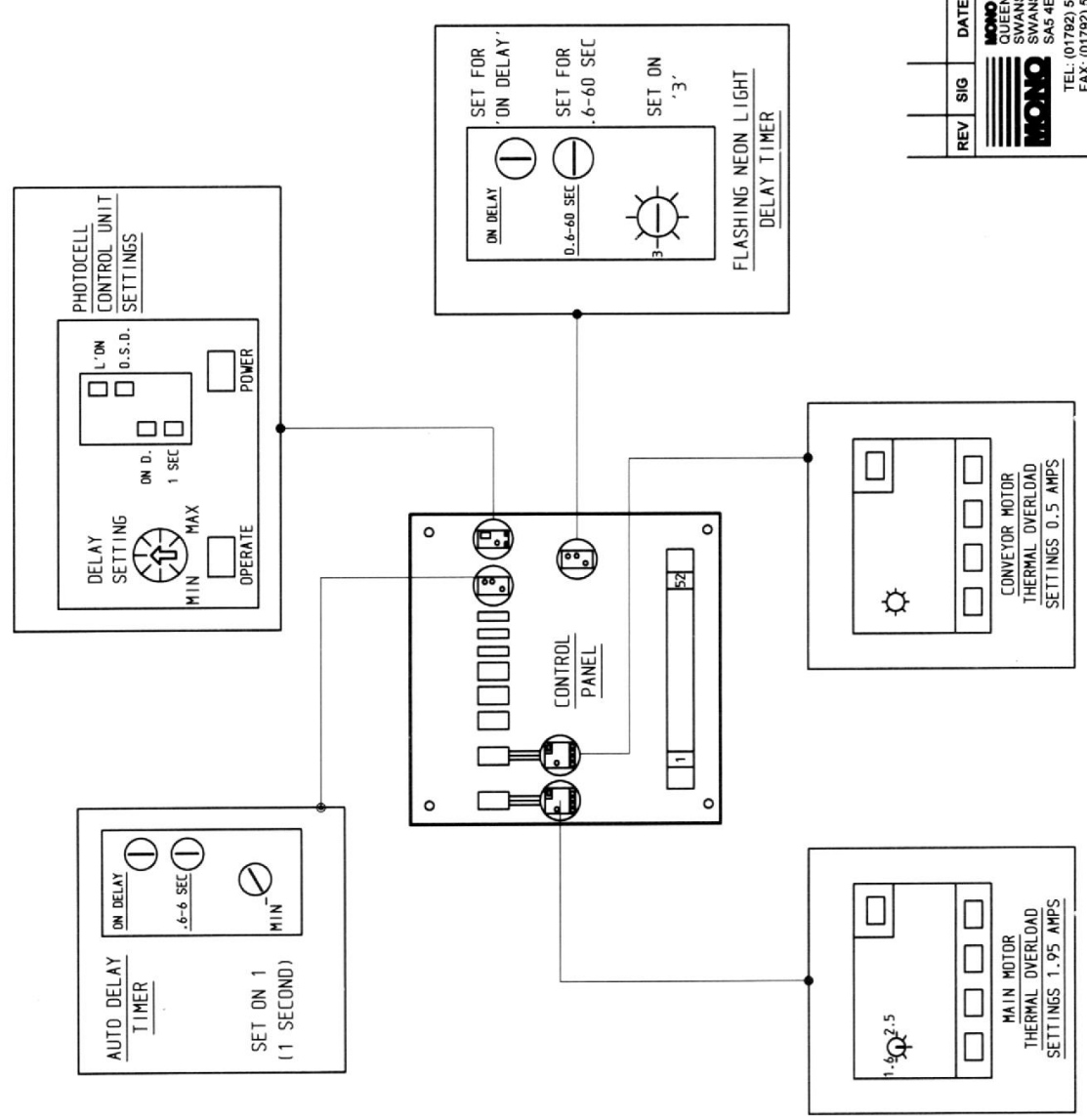


| REV | SIG | DATE | REVISION | ECN NO. |
|-----|-----|------|----------|---------|
|     |     |      |          |         |

|   |  |
|---|--|
| <br>MONO EQUIPMENT<br>QUEENSWAY<br>SWANSEA WEST IND PARK<br>SWANSEA<br>SA5 4EB.<br>TEL: (01792) 561234<br>FAX: (01792) 561016   | TITLE:<br>POWER CIRCUIT WIRING DIAGRAM<br>PARK n RIDE PROVER |
| ELECTRICAL SPECIFICATIONS:-   | DRAWN:<br>RAC  |
| REDRAWN ON CAD NO CHANGE 21/10/94   | ELECTRICALLY APPROVED BY:-                                   |
| 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. | DATE:<br>12-9-90<br>CAD 20-10-94                             |
|   | DRAWING NO.<br>M036-25-10000 SHT5                            |
|   | REV:   |

IF IN ANY DOUBT - ASK



PHOTOCELL  
SENSITIVITY ADJUSTMENT

WHEN ALIGNING REFLECTOR TO PHOTOCELL UNIT  
ENSURE BOTH RED AND GREEN L.E.D.'S ARE  
ILLUMINATED.

NOTE  
REFLECTOR CAN BE MOVED VERTICALLY.

| REV | SIG | DATE | REVISION   | ECN NO. |
|-----|-----|------|--|---------|
|     |     |      | CONTROL UNITS ADJUSTMENTS<br>PARK N RIDE PROVER<br>(WITH CONVEYOR) |         |

**MONO EQUIPMENT**  
QUEENSWAY  
SWANSEA WEST IND PARK  
SWANSEA  
SA5 4EB.  
TEL: (01782) 581234  
FAX: (01782) 581016

**MONO**

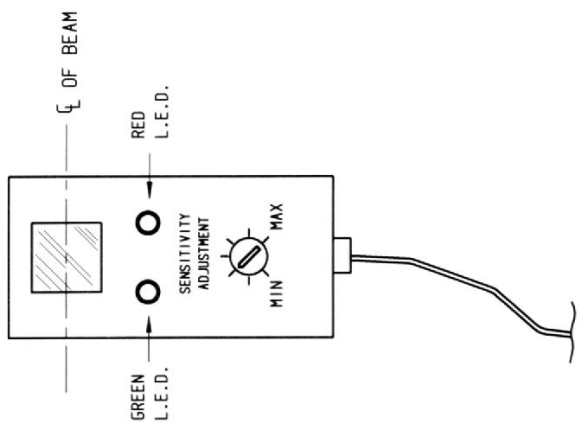
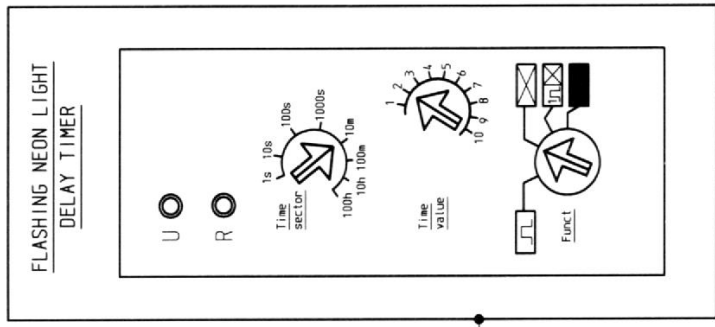
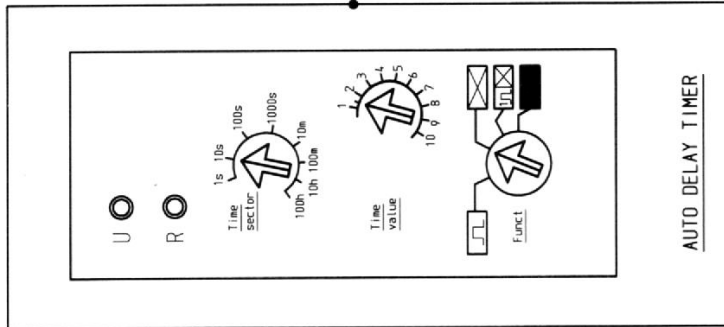
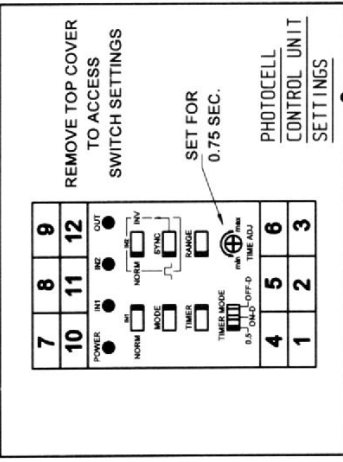
ELECTRICAL SPECIFICATIONS:-

DRAWN: RAC/JC  
DATE: 14-9-90  
DRAWING NO. SHT 10a  
M036-25-10000

ELECTRICALLY APPROVED BY:-

REDRAWN ON CAD 10-98  
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.

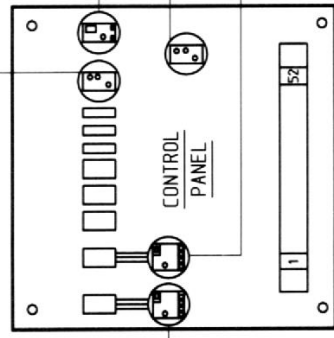
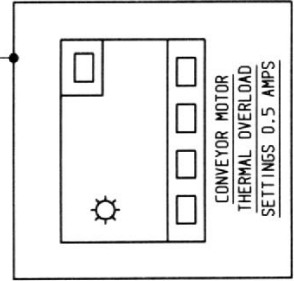
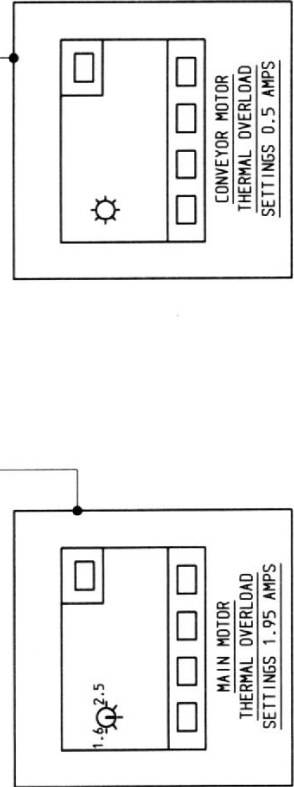
**IF IN ANY DOUBT - ASK**



PHOTOCELL SENSITIVITY ADJUSTMENT

WHEN ALIGNING REFLECTOR TO PHOTOCELL UNIT ENSURE BOTH RED AND GREEN L.E.D.'S ARE ILLUMINATED.

NOTE  
REFLECTOR CAN BE MOVED VERTICALLY.

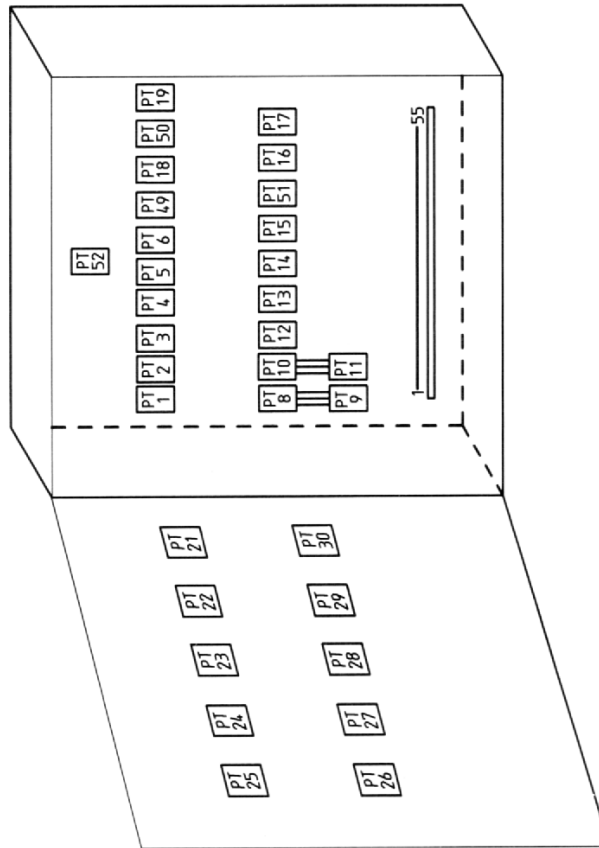


| REV   | SIG | DATE | REVISION                                    | ECN NO. |
|---|-----|------|---|---------|
|   |     |      |   |         |
| <p><b>MONO EQUIPMENT</b><br/>QUEENSWAY<br/>SWANSEA WEST IND PARK<br/>SWANSEA<br/>SA5 4EB.<br/>TEL: (01792) 561234<br/>FAX: (01792) 561016</p> |     |      |   |         |
| <p><b>TITLE:</b><br/>NEW CONTROL UNITS ADJUSTMENTS<br/>PARK N RIDE PROVER (WITH CONVEYOR)</p>   |     |      | <p><b>ELECTRICALLY APPROVED BY:-</b></p>    |         |
| <p><b>ELECTRICAL SPECIFICATIONS:-</b></p>   |     |      | <p><b>DRAWN:</b><br/>RAC / JC</p>           |         |
| <p><b>DATE:</b><br/>14-9-90</p>   |     |      | <p><b>DRAWING NO.</b><br/>MD36-25-10000</p> |         |
| <p><b>REVISION</b></p>  |     |      | <p><b>REV:</b><br/>SHT 10b</p>              |         |
| <p><b>DATE:</b><br/>14-9-90</p>   |     |      | <p><b>REV:</b><br/>—</p>                    |         |

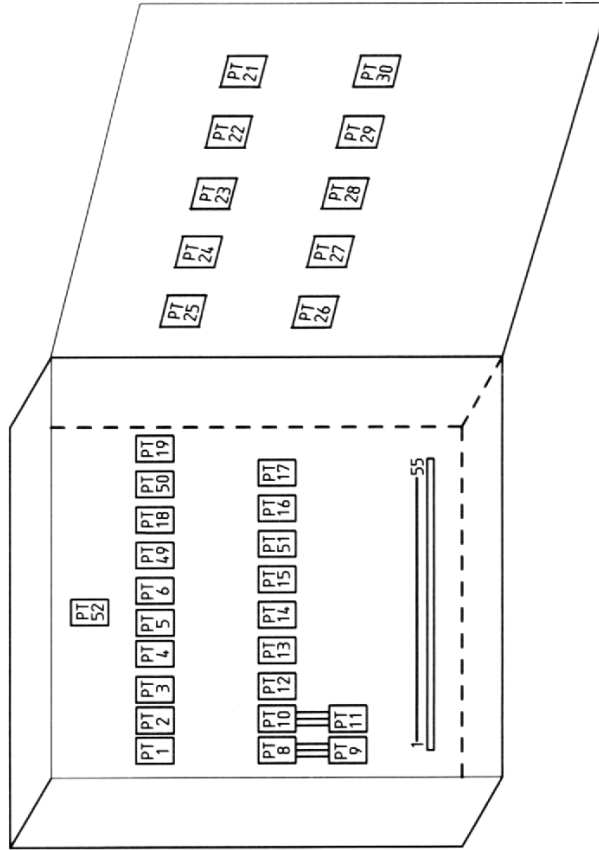
REDRAWN ON CAD 10-98  
COPYRIGHT © 1998 - THIS DESIGN/DRAWING IS THE PROPERTY OF MONO EQUIPMENT LTD. AND MUST NOT BE REPRODUCED, COPIED, NOR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN PERMISSION.


IF IN ANY DOUBT - ASK

L.H. PROVER



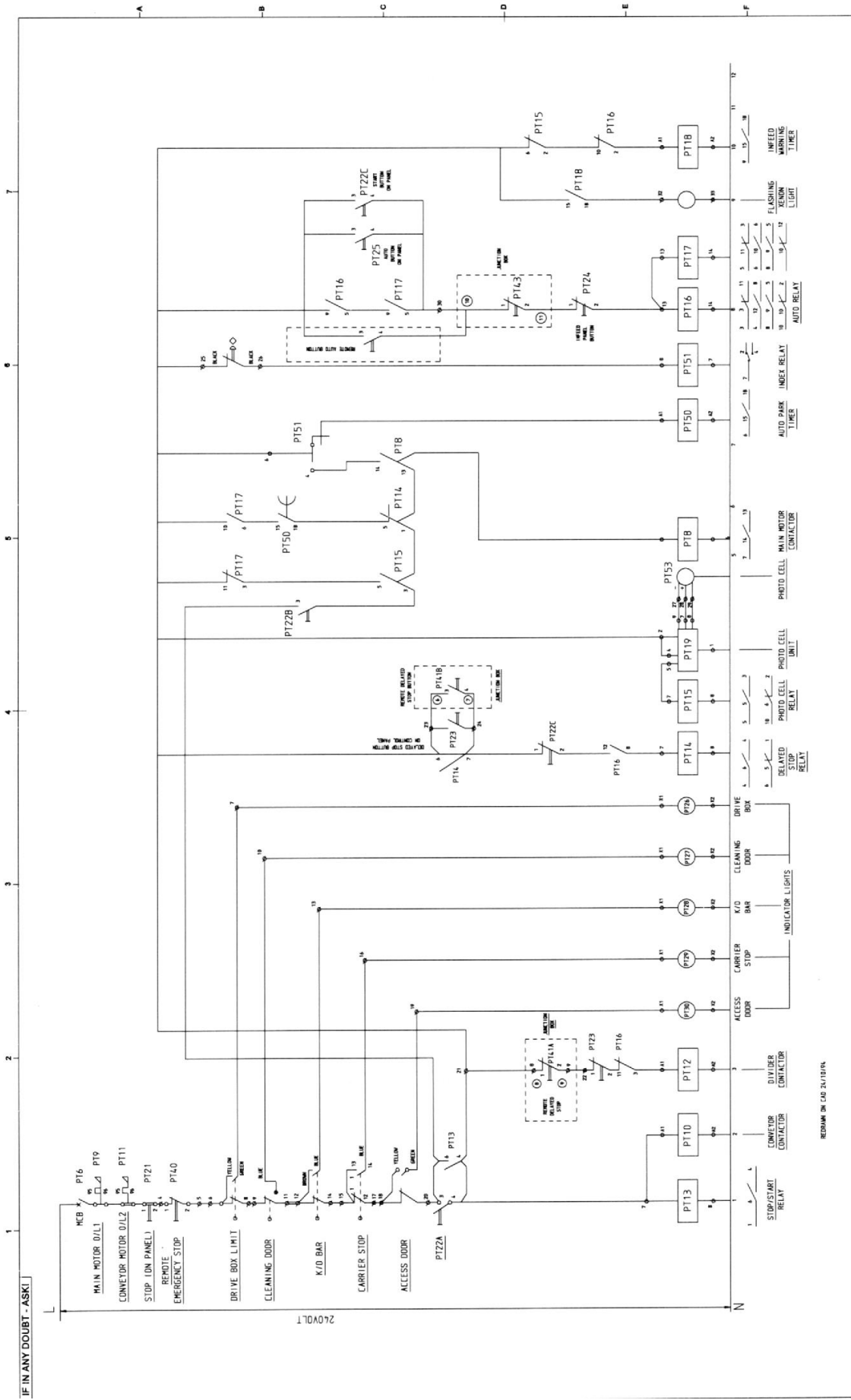
R.H. PROVER



| REV   | SIG | DATE     | REVISION                        | ECN NO. |
|---|-----|----------|---------------------------------|---------|
| A   | SP  | 23-12-93 | PT-20 & PT-7 DELETED            | 4853    |
|  <b>MONO EQUIPMENT</b><br>QUEENSWAY<br>SWANSEA WEST IND PARK<br>SWANSEA<br>SA5 4EB<br>TEL: (01792) 561234<br>FAX: (01792) 561016 |     |          |                                 |         |
| TITLE:<br>PARK N RIDE PROVER<br>MAIN CONTROL PANEL COMPONENT<br>LAYOUT (WITH CONVEYOR)  |     |          | DRAWN:<br>RAC/JC                |         |
| ELECTRICAL SPECIFICATIONS:-   |     |          | ELECTRICALLY APPROVED BY:-      |         |
| DATE:<br>1-93   |     |          | DRAWING NO.<br>M036-25-10000/01 |         |
| REDRAWN ON CAD 10-98  |     |          | REV:<br>A                       |         |

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.

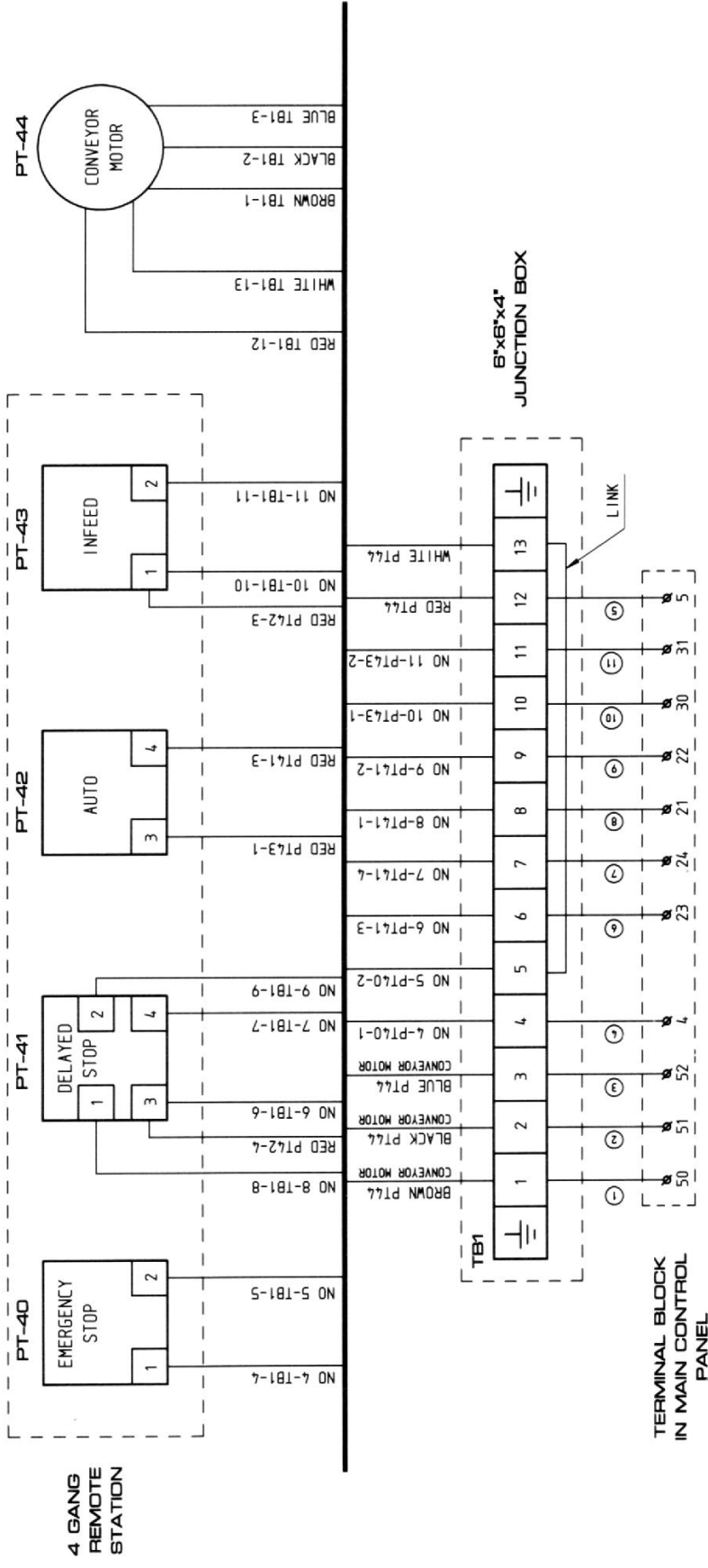




| REV | NO | DATE     | DESCRIPTION               | BY | CHKD |
|-----|----|----------|---------------------------|----|------|
| 1   | 1  | 23-12-93 | HEATER AND SWITCH REMOVED |    |      |
| 2   | 2  |          |                           |    |      |
| 3   | 3  |          |                           |    |      |
| 4   | 4  |          |                           |    |      |
| 5   | 5  |          |                           |    |      |
| 6   | 6  |          |                           |    |      |
| 7   | 7  |          |                           |    |      |
| 8   | 8  |          |                           |    |      |
| 9   | 9  |          |                           |    |      |
| 10  | 10 |          |                           |    |      |
| 11  | 11 |          |                           |    |      |
| 12  | 12 |          |                           |    |      |
| 13  | 13 |          |                           |    |      |
| 14  | 14 |          |                           |    |      |
| 15  | 15 |          |                           |    |      |
| 16  | 16 |          |                           |    |      |
| 17  | 17 |          |                           |    |      |
| 18  | 18 |          |                           |    |      |
| 19  | 19 |          |                           |    |      |
| 20  | 20 |          |                           |    |      |
| 21  | 21 |          |                           |    |      |
| 22  | 22 |          |                           |    |      |
| 23  | 23 |          |                           |    |      |
| 24  | 24 |          |                           |    |      |
| 25  | 25 |          |                           |    |      |
| 26  | 26 |          |                           |    |      |
| 27  | 27 |          |                           |    |      |
| 28  | 28 |          |                           |    |      |
| 29  | 29 |          |                           |    |      |
| 30  | 30 |          |                           |    |      |
| 31  | 31 |          |                           |    |      |
| 32  | 32 |          |                           |    |      |
| 33  | 33 |          |                           |    |      |
| 34  | 34 |          |                           |    |      |
| 35  | 35 |          |                           |    |      |
| 36  | 36 |          |                           |    |      |
| 37  | 37 |          |                           |    |      |
| 38  | 38 |          |                           |    |      |
| 39  | 39 |          |                           |    |      |
| 40  | 40 |          |                           |    |      |
| 41  | 41 |          |                           |    |      |
| 42  | 42 |          |                           |    |      |
| 43  | 43 |          |                           |    |      |
| 44  | 44 |          |                           |    |      |
| 45  | 45 |          |                           |    |      |
| 46  | 46 |          |                           |    |      |
| 47  | 47 |          |                           |    |      |
| 48  | 48 |          |                           |    |      |
| 49  | 49 |          |                           |    |      |
| 50  | 50 |          |                           |    |      |
| 51  | 51 |          |                           |    |      |
| 52  | 52 |          |                           |    |      |
| 53  | 53 |          |                           |    |      |
| 54  | 54 |          |                           |    |      |
| 55  | 55 |          |                           |    |      |
| 56  | 56 |          |                           |    |      |
| 57  | 57 |          |                           |    |      |
| 58  | 58 |          |                           |    |      |
| 59  | 59 |          |                           |    |      |
| 60  | 60 |          |                           |    |      |

TITLE: SCHEMATIC WIRING DIAGRAM  
 DRAWING NO: M03A25-1000SHT4  
 PROJECT: PARK n RIDE PROVER  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 DATE: 23-12-93  
 ELECTRICAL SPECIFICATIONS: [Text]  
 REVISION: [Text]

IF IN ANY DOUBT - ASK

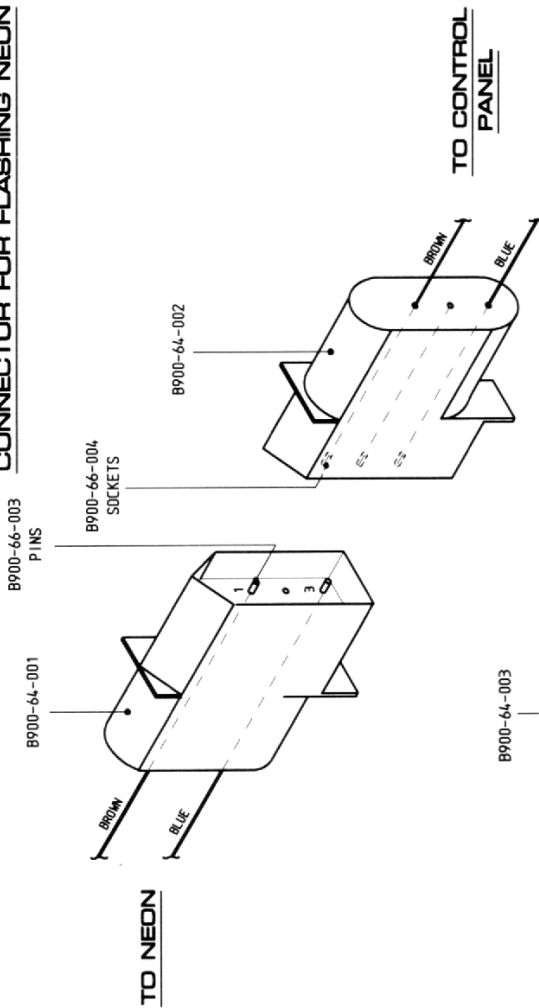


|  |     |         |  |         |
|--|-----|---------|--|---------|
| REV  | SIG | DATE    | REVISION   | ECN NO. |
| A  | SP  | 3-12-93 | THERMAL OVERLOAD ADDED   | 4815    |
| <p><b>MONO EQUIPMENT</b><br/>         QUEENSWAY<br/>         SWANSEA WEST IND PARK<br/>         SWANSEA<br/>         SA5 4EB<br/>         TEL: (01792) 561234<br/>         FAX: (01792) 561016</p> |     |         |  |         |
| TITLE:<br>REMOTE STATION/JUNCTION BOX<br>WIRING DIAGRAM<br>(WITH CONVEYOR THERMAL OVERLOAD)  |     |         | DRAWN:<br>RAC / JC<br>ELECTRICALLY APPROVED BY:-                       |         |
| ELECTRICAL SPECIFICATIONS:-  |     |         | DATE:<br>13-9-90<br>DRAWING NO.<br>M036-25-10000<br>SHT 7<br>REV:<br>A |         |

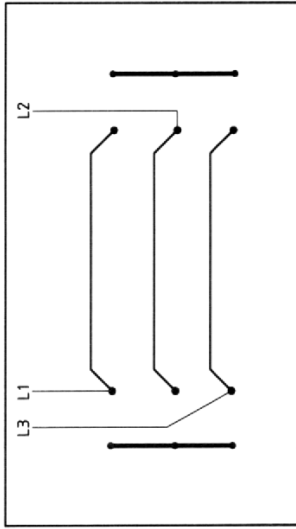
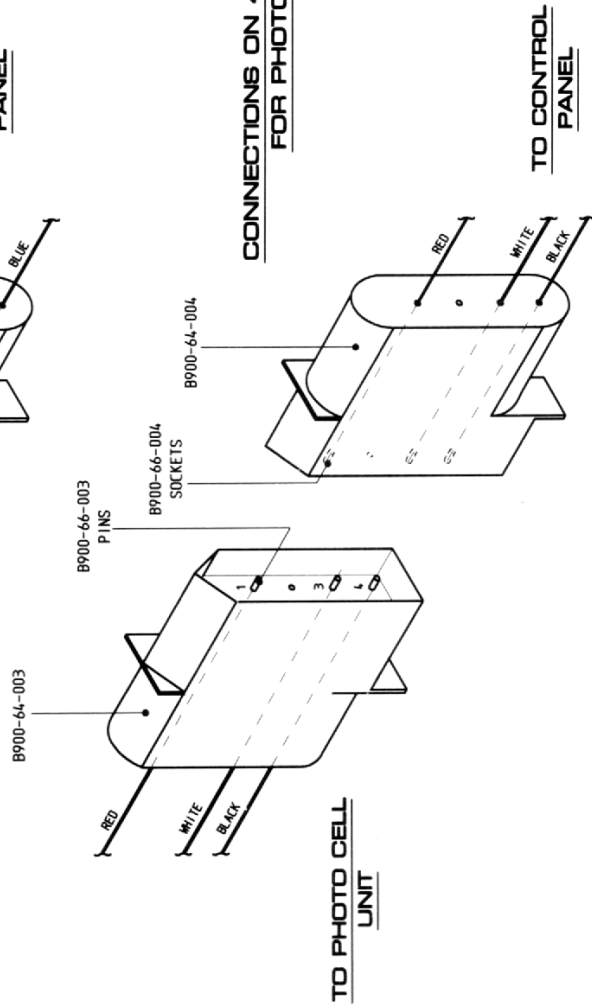
REDRAWN ON CAD 10-98  
 COPYRIGHT © 1998 - THIS DESIGN/DRAWING IS THE PROPERTY OF MONO EQUIPMENT LTD. AND MUST NOT BE REPRODUCED, COPIED, NOR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN PERMISSION.

IF IN ANY DOUBT - ASK

**CONNECTIONS ON 3 WAY CONNECTOR FOR FLASHING NEON**



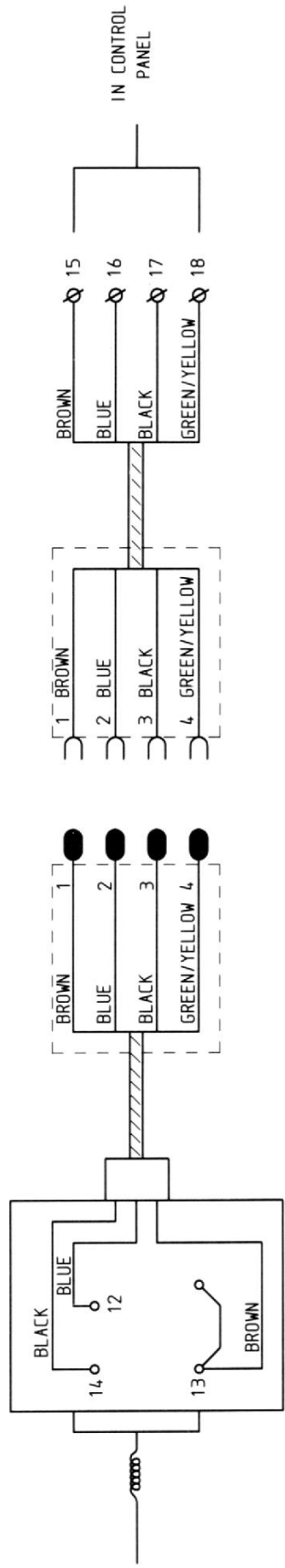
**CONNECTIONS ON 4 WAY CONNECTOR FOR PHOTO CELL UNIT**



| REV  | SIG | DATE | REVISION   | ECH NO. |
|--|-----|------|--|---------|
|  |     |      |  |         |
| <p><b>MONO EQUIPMENT</b><br/>                 QUEENSWAY<br/>                 SWANSEA WEST IND PARK<br/>                 SWANSEA,<br/>                 SA5 4EB.<br/>                 TEL: (01792) 561234<br/>                 FAX: (01792) 561016</p> |     |      |  |         |
| <p><b>MONO EQUIPMENT</b><br/>                 QUEENSWAY<br/>                 SWANSEA WEST IND PARK<br/>                 SWANSEA,<br/>                 SA5 4EB.<br/>                 TEL: (01792) 561234<br/>                 FAX: (01792) 561016</p> |     |      | <p>TITLE: PARK N RIDE PROVER<br/>                 WIRING FOR 3 &amp; 4 WAY CONNECTORS<br/>                 AND MOTOR</p> |         |
| ELECTRICAL SPECIFICATIONS:-  |     |      | DRAWN: RAC / JC<br>ELECTRICALLY APPROVED BY:-  |         |
| REDRAWN ON CAD 10-98   |     |      | DATE: 14-9-90  |         |
|  |     |      | DRAWING NO. SHT 9  |         |
|  |     |      | REV: M036E25-10000   |         |

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.

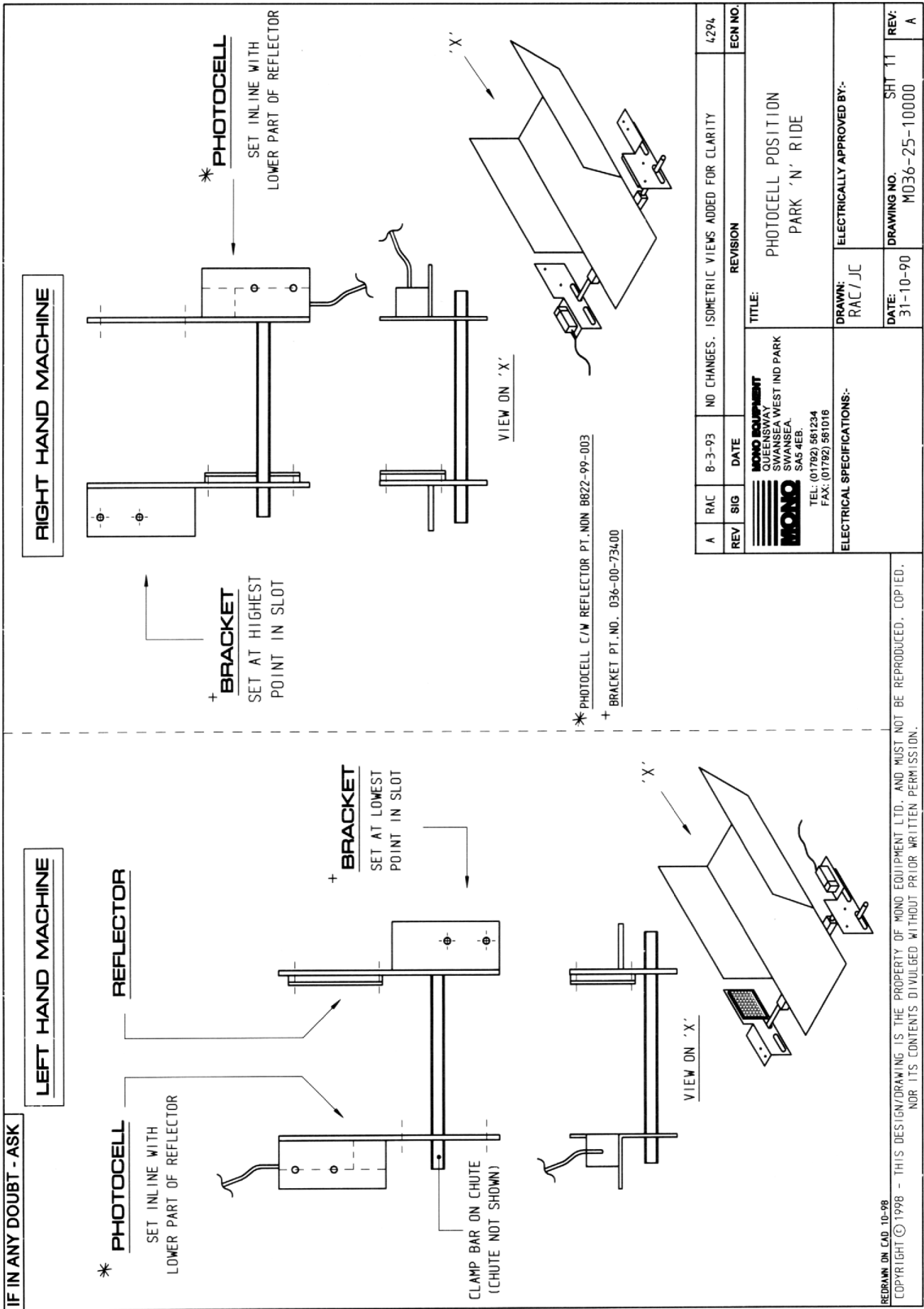
IF IN ANY DOUBT - ASK



| REV   | SIG | DATE | REVISION  | ECN NO. |
|---|-----|------|---|---------|
|   |     |      |   |         |
| <b>MONO EQUIPMENT</b><br>QUEENSWAY<br>SWANSEA WEST IND PARK<br>SWANSEA<br>SA5 4EB<br>TEL: (01792) 561234<br>FAX: (01792) 561016 |     |      |   |         |
| TITLE:<br>CARRIER STOP LIMIT SWITCH WIRING<br>PARK N RIDE PROVER  |     |      | DRAWN:<br>RAC/JC<br>ELECTRICALLY APPROVED BY:-                |         |
| ELECTRICAL SPECIFICATIONS:-   |     |      | DATE:<br>15-9-90<br>DRAWING NO.<br>M036-25-10000<br>REV:<br>— |         |

REDRAWN ON CAD 10-98

COPYRIGHT © 1998 - THIS DESIGN/DRAWING IS THE PROPERTY OF MONO EQUIPMENT LTD. AND MUST NOT BE REPRODUCED, COPIED, OR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN PERMISSION.



IF IN ANY DOUBT - ASK

**LEFT HAND MACHINE**

\* **PHOTOCELL**  
SET IN LINE WITH  
LOWER PART OF REFLECTOR

**REFLECTOR**

+ **BRACKET**  
SET AT LOWEST  
POINT IN SLOT

CLAMP BAR ON CHUTE  
(CHUTE NOT SHOWN)

VIEW ON 'X'

**RIGHT HAND MACHINE**

+ **BRACKET**  
SET AT HIGHEST  
POINT IN SLOT

\* **PHOTOCELL**  
SET IN LINE WITH  
LOWER PART OF REFLECTOR

VIEW ON 'X'

\* PHOTOCELL C/W REFLECTOR PT. NON B822-99-003  
+ BRACKET PT. NO. 036-00-73400

|  |     |        |   |         |
|--|-----|--------|---|---------|
| REV  | SIG | DATE   | REVISION  | ECN NO. |
| A  | RAC | 8-3-93 | NO CHANGES. ISOMETRIC VIEWS ADDED FOR CLARITY   | 4294    |
|  |     |        | <b>TITLE:</b><br>PHOTOCELL POSITION<br>PARK 'N' RIDE  |         |
| MONO EQUIPMENT<br>1005 BROADWAY<br>SUWANEEA WEST IND PARK<br>SUWANEEA,<br>GA 30086<br>TEL: (01792) 561234<br>FAX: (01792) 561016 |     |        | <b>DRAWN:</b><br>RAC/JC<br><br><b>ELECTRICALLY APPROVED BY:-</b>  |         |
| <b>ELECTRICAL SPECIFICATIONS:-</b>   |     |        | <b>DATE:</b><br>31-10-90<br><br><b>DRAWING NO.</b><br>M036-25-1000<br><br><b>SHT</b> 11<br><b>REV:</b><br>A |         |

REDRAWN ON CAD 10-98  
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.

## **10.0 SPARES INFORMATION**

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

### **SPARES and OVERSEAS SUPPORT:**

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

**Spares Tel. +44(0)1792 564039**

**email:spares@monoequip.com**

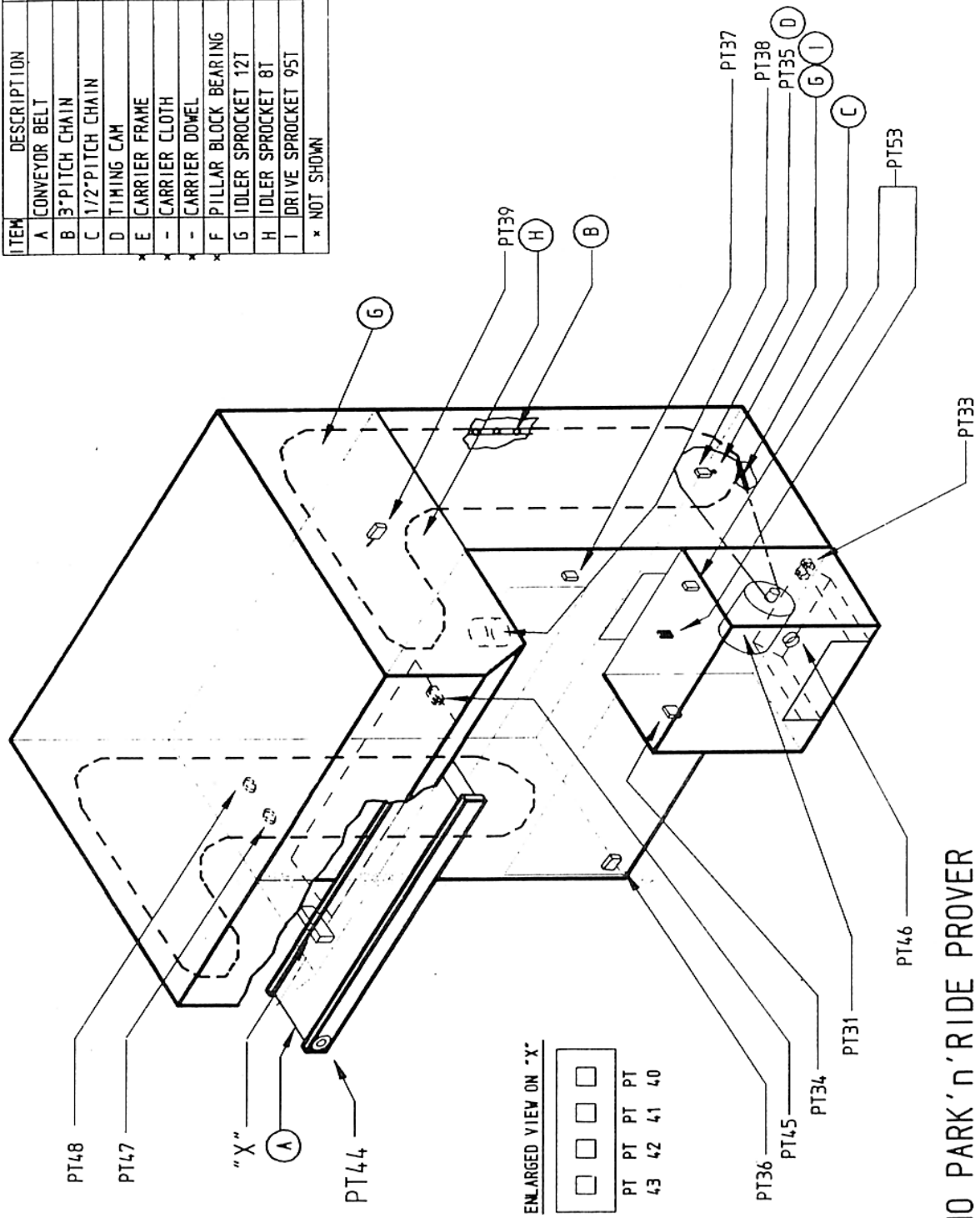
**Web site:www.monoequip.com**

**MainTel. +44(0)1792 561234**

**Fax. 01792 561016**

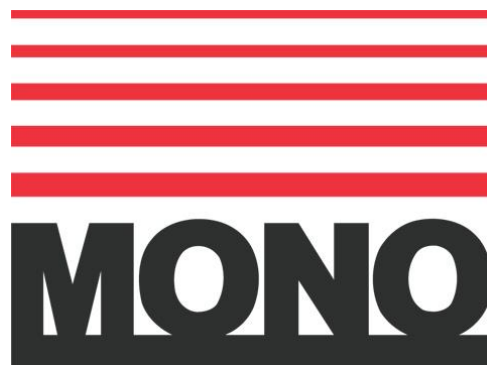
# MONO PARK 'N' RIDE PROVER SPARES COMPONENT LAYOUT

| ITEM        | DESCRIPTION          | PART No.     |
|-------------|----------------------|--------------|
| A           | CONVEYOR BELT        | A900-22-074  |
| B           | 3" PITCH CHAIN       | A900-08-029  |
| C           | 1/2" PITCH CHAIN     | A900-08-004  |
| D           | TIMING CAM           | 036-00-73500 |
| E           | CARRIER FRAME        | 036-00-012A2 |
| -           | CARRIER CLOTH        | A900-22-005  |
| -           | CARRIER DOWEL        | A900-25-079  |
| F           | PILLAR BLOCK BEARING | A900-06-028  |
| G           | IDLER SPROCKET 12T   | 036-00000400 |
| H           | IDLER SPROCKET 8T    | 036-00003500 |
| I           | DRIVE SPROCKET 95T   | 036-00001800 |
| * NOT SHOWN |                      |              |



**MONO PARK 'n' RIDE PROVER  
SPARES COMPONENT LAYOUT**

MONO EQUIPMENT 10-94



**MONO Equipment**

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

**Tel. 01792 561234**

Fax. 01792 561016

Email:mono@monoequip.com

**[www.monoequip.com](http://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)