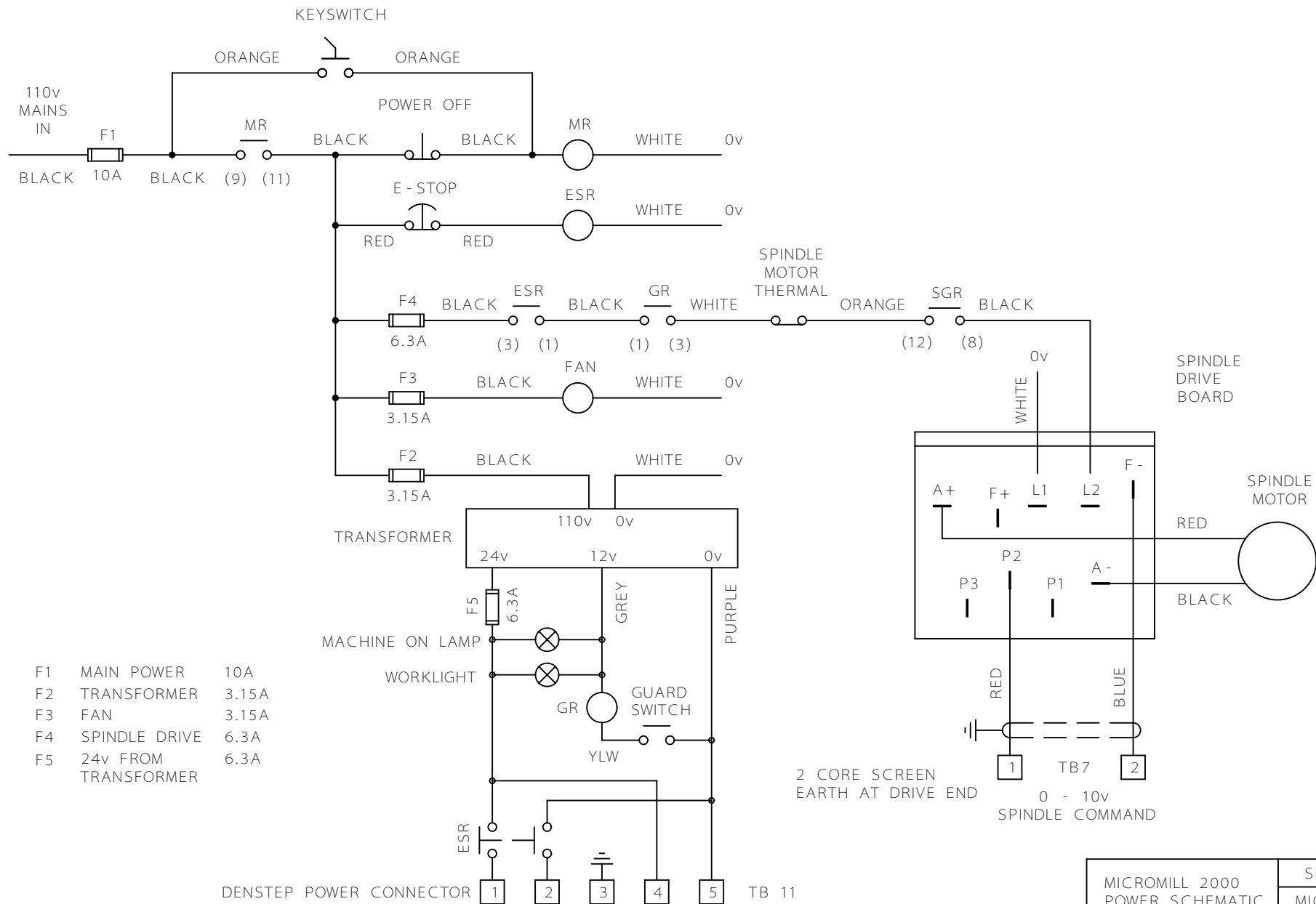


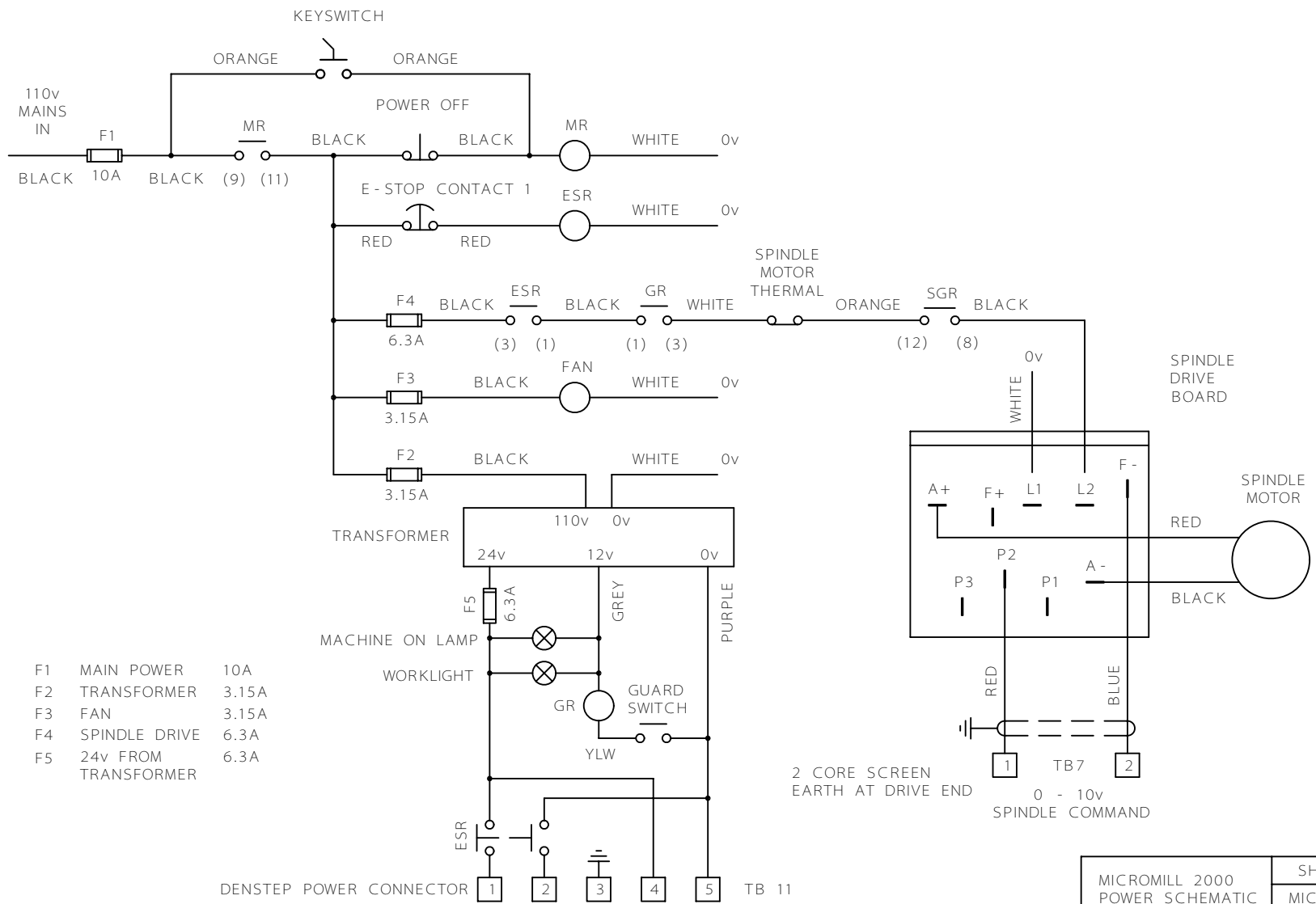
MICROMILL 2000  
POWER SCHEMATIC  
110v SUPPLY

SHEET 1  
MICROMILL  
DENSTEP



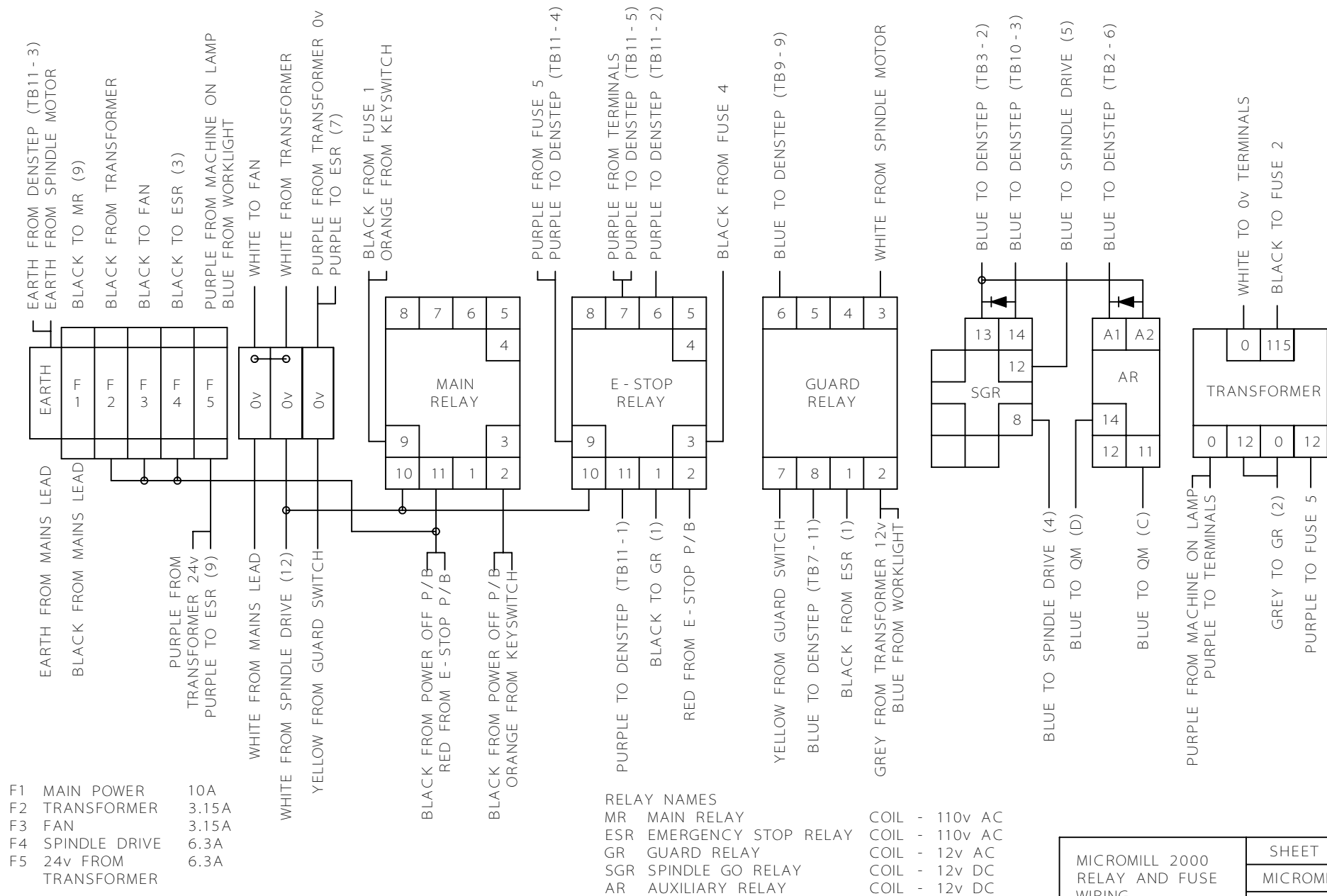
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POWER SCHEMATIC  
110v SUPPLY

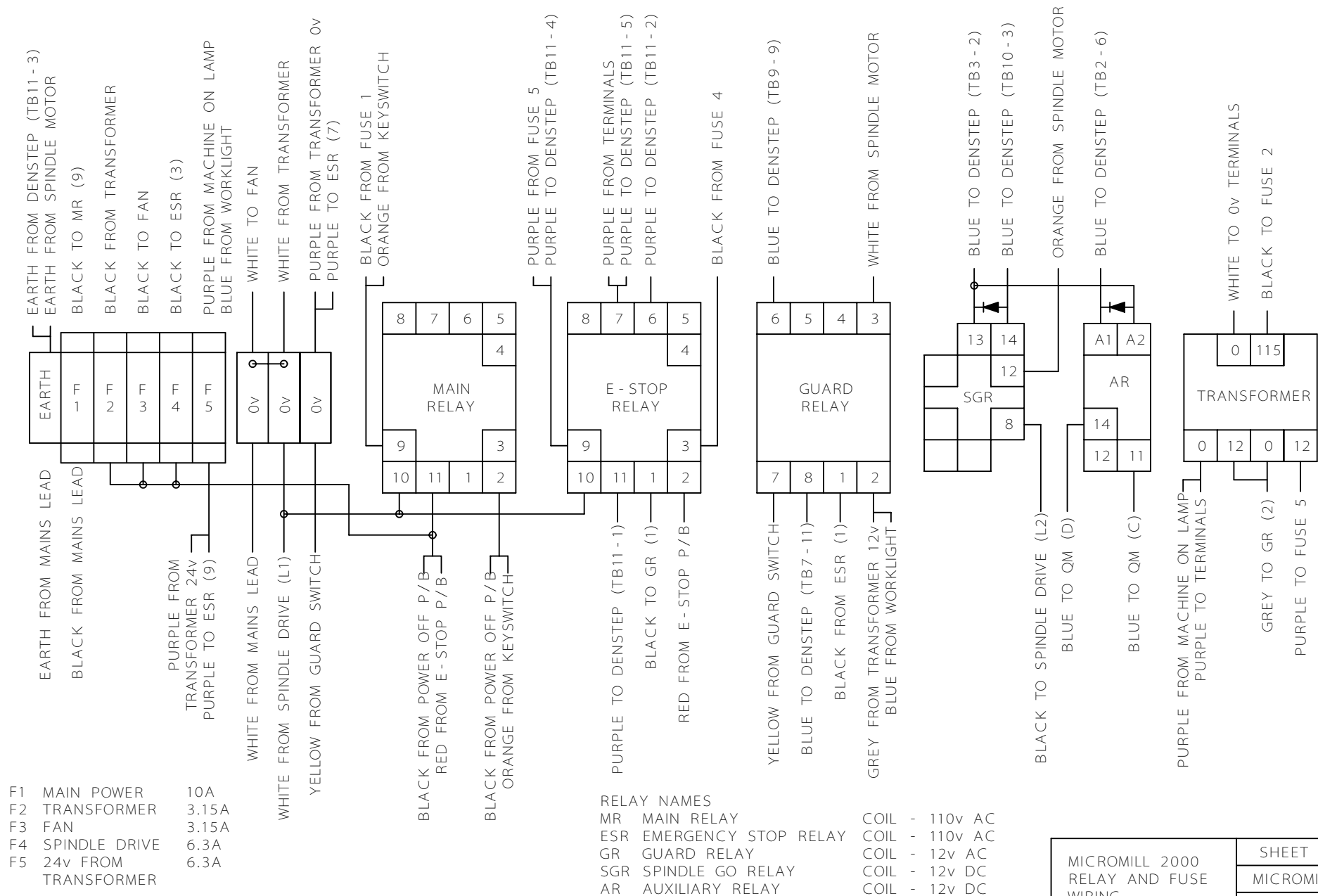
SHEET 1  
MICROMILL  
DENSTEP

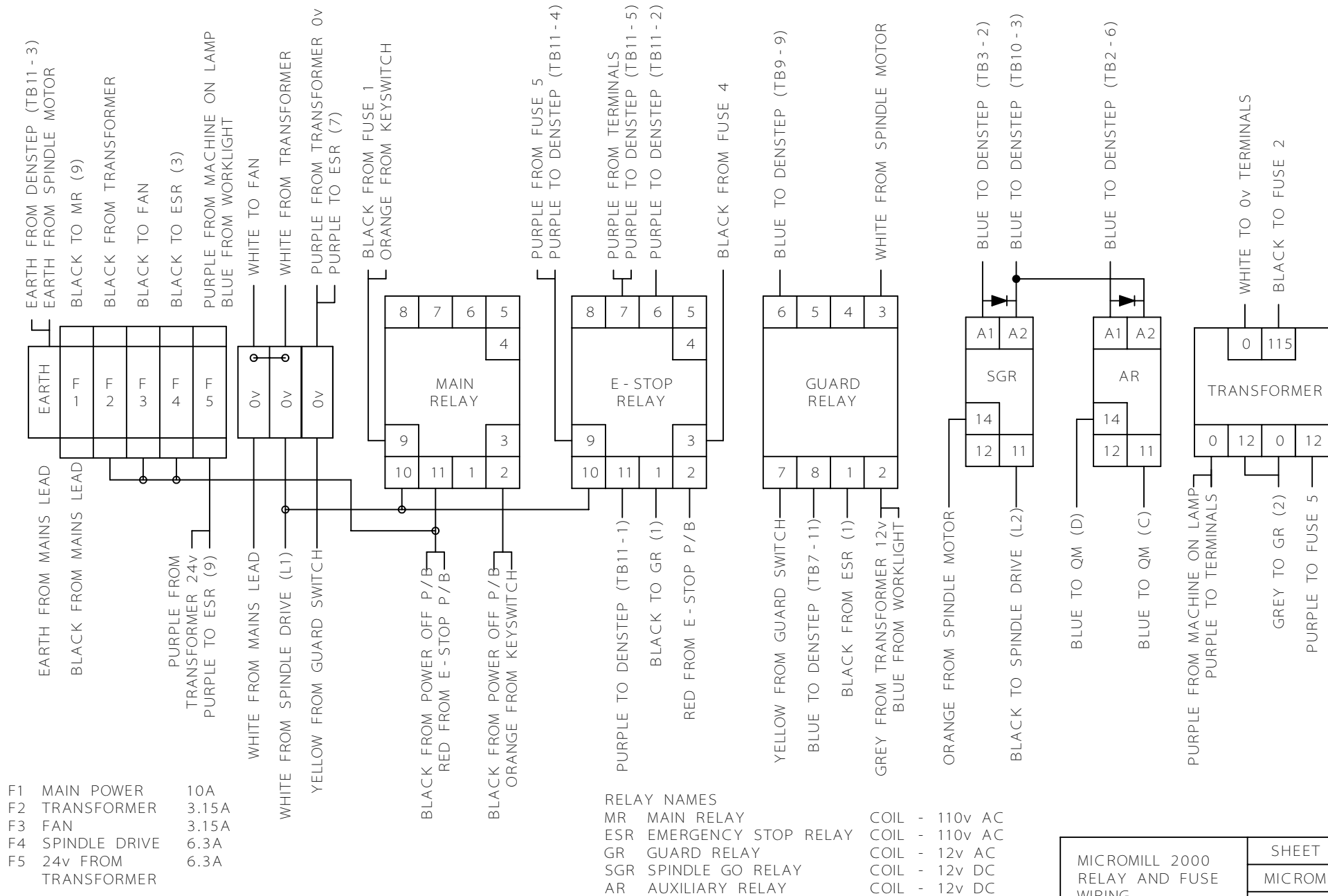


MICROMILL 2000  
POWER SCHEMATIC  
110v SUPPLY

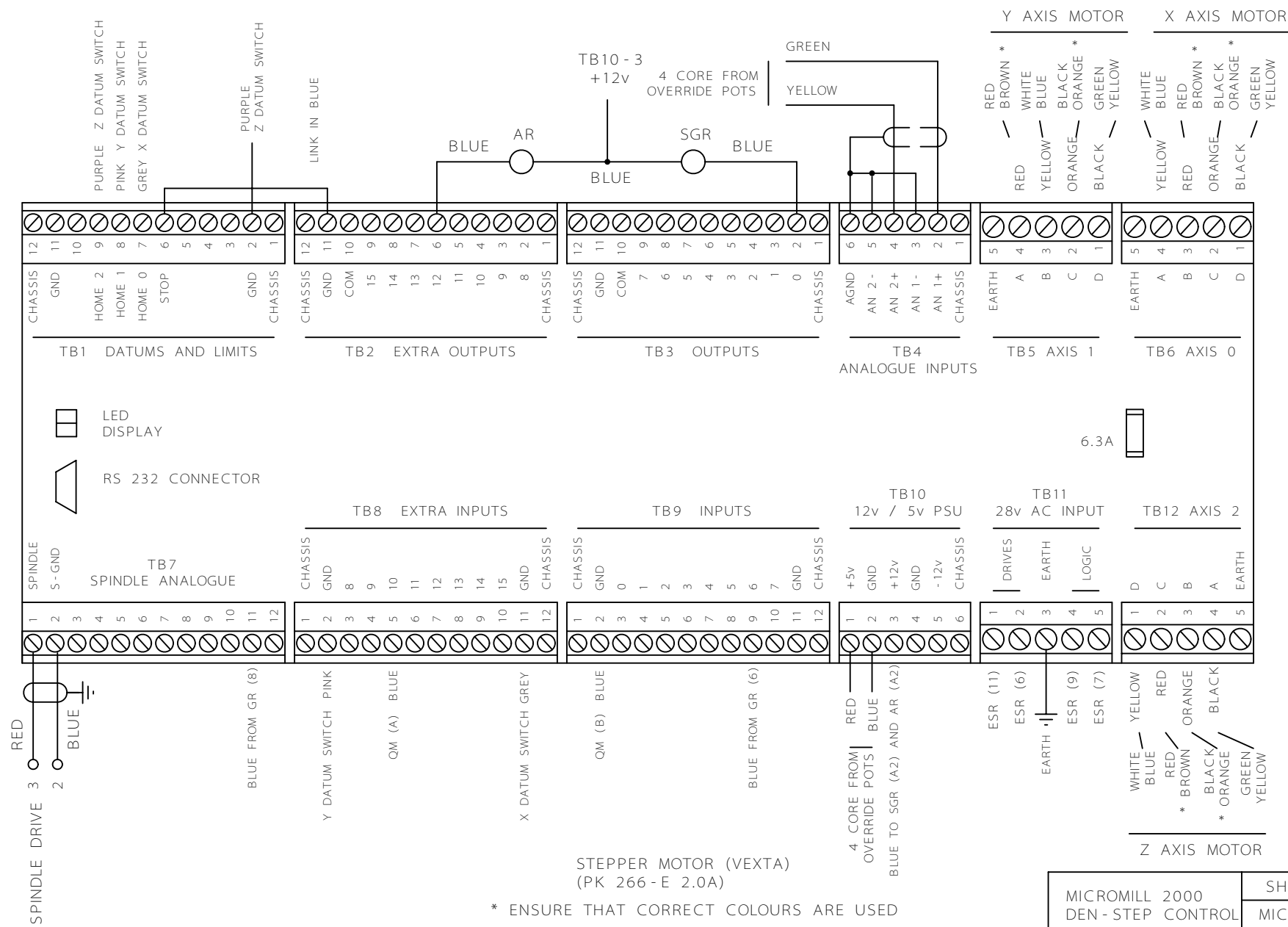
SHEET 1  
MICROMILL  
DENSTEP



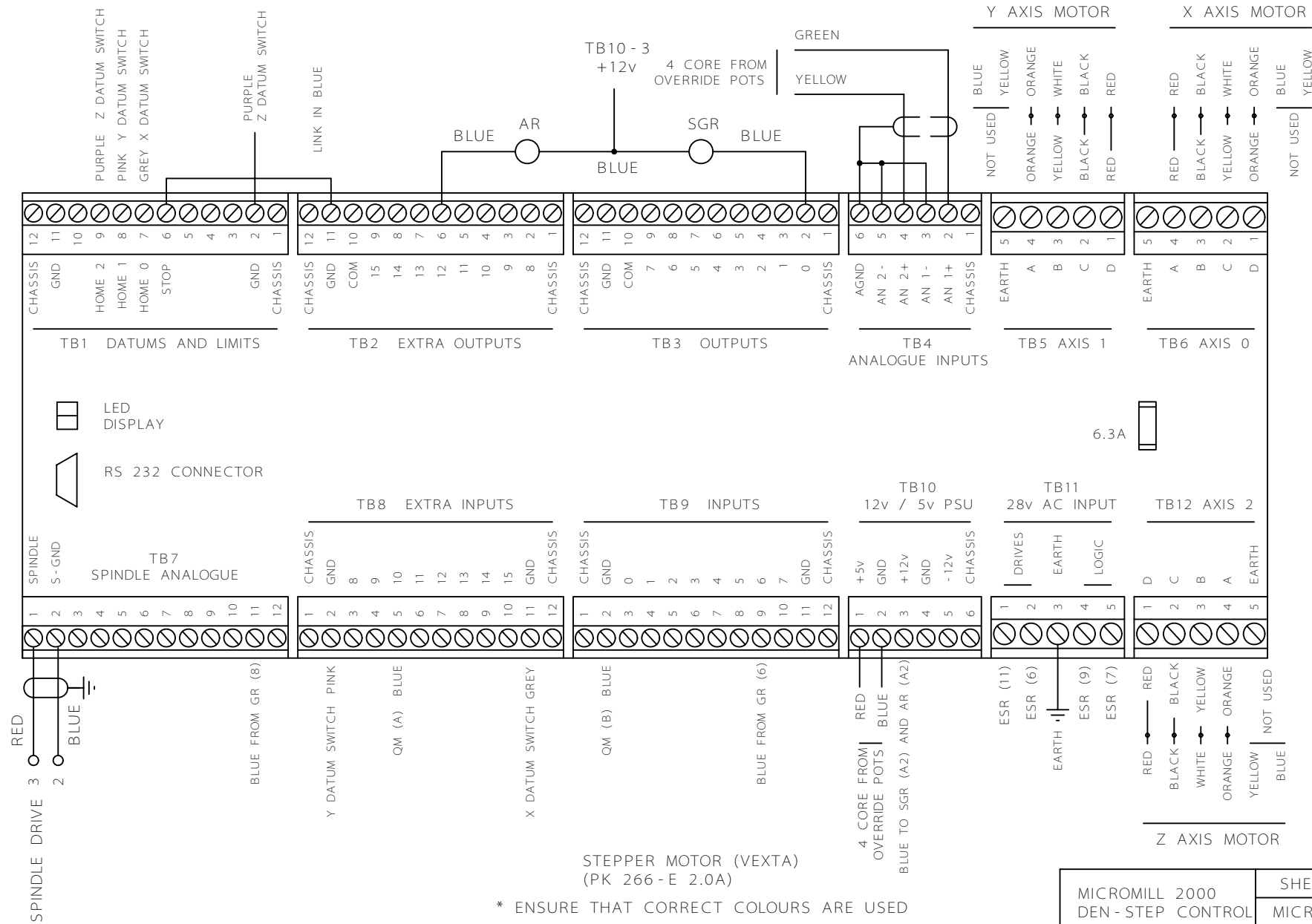


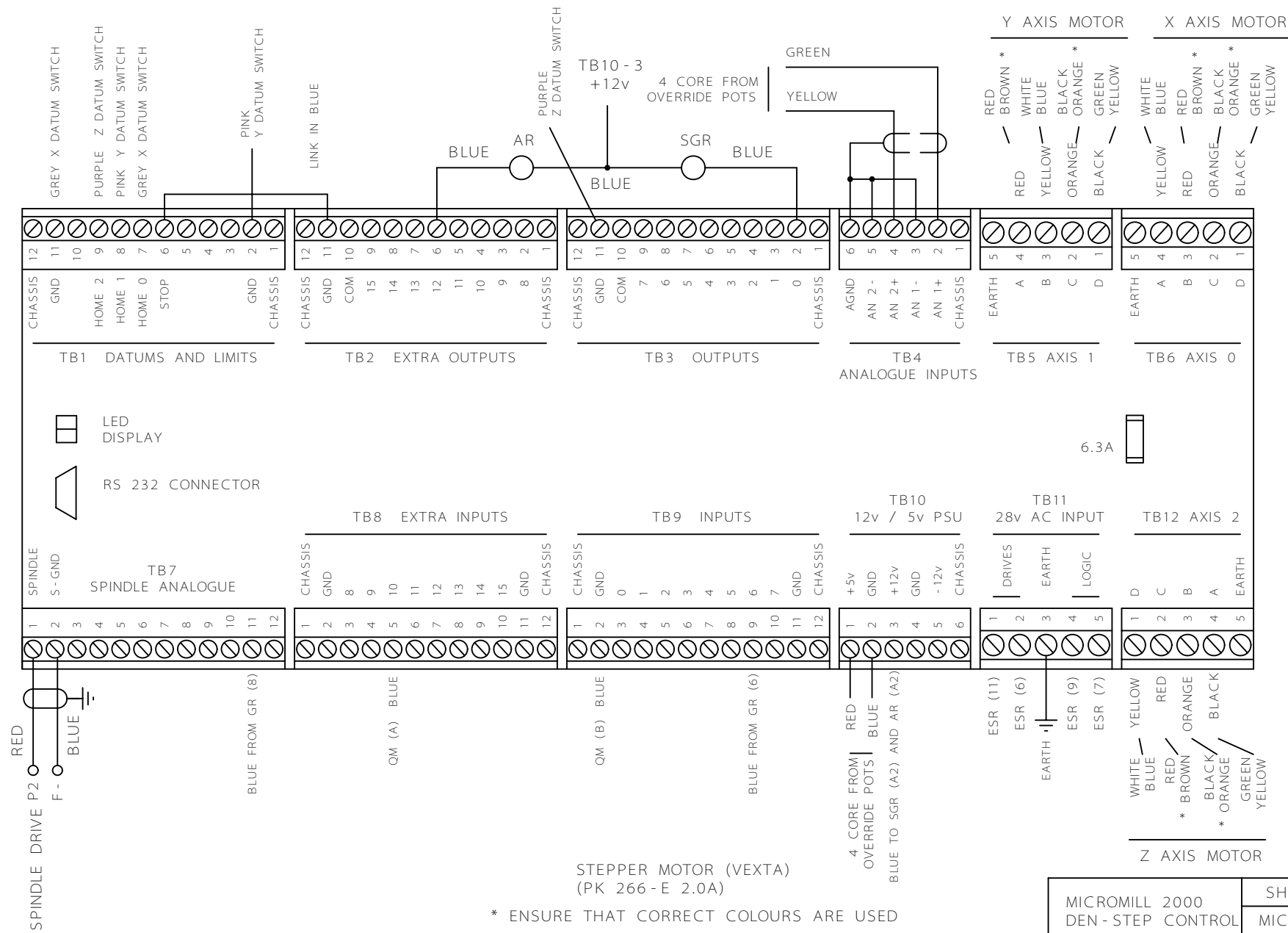




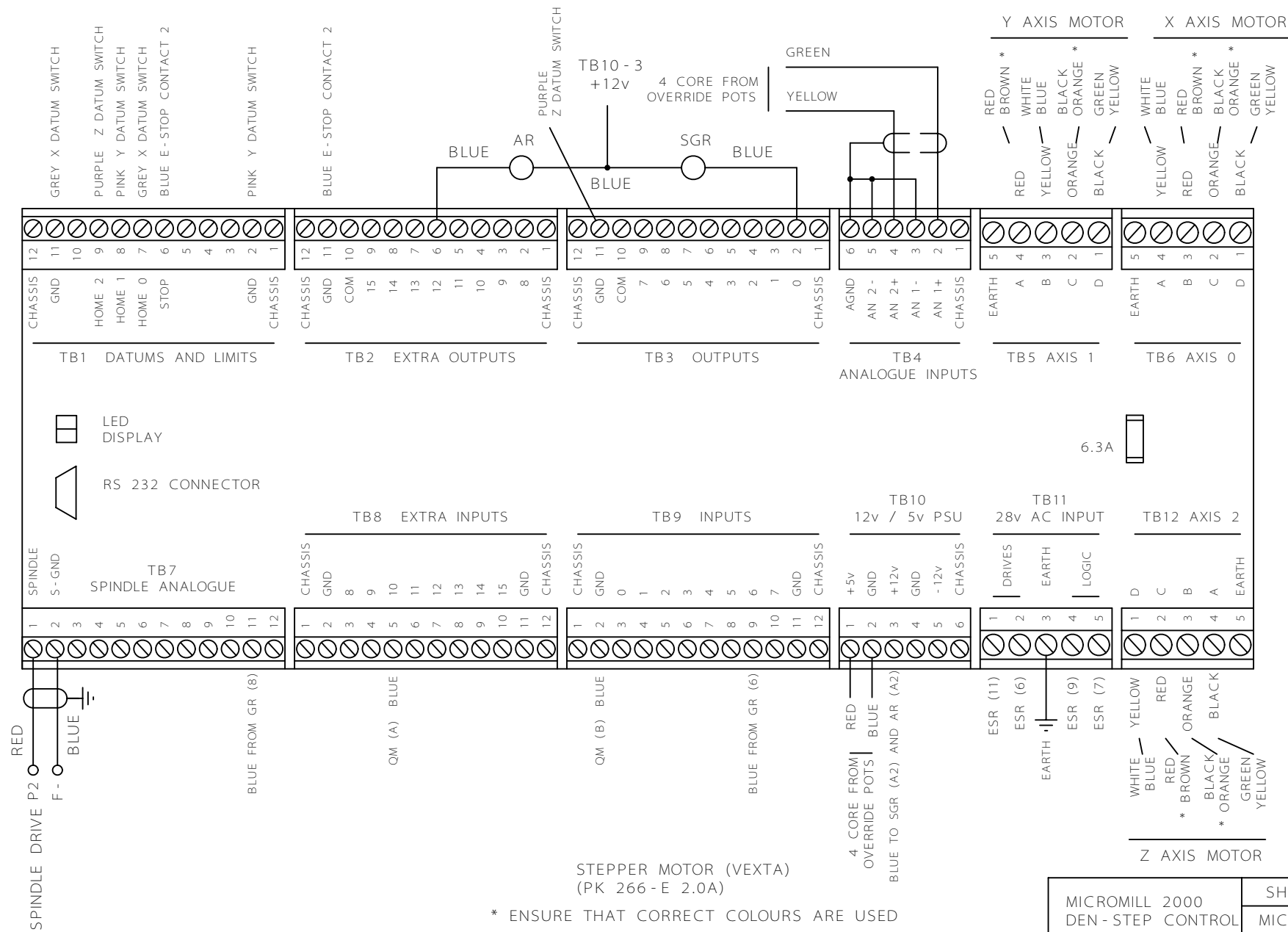




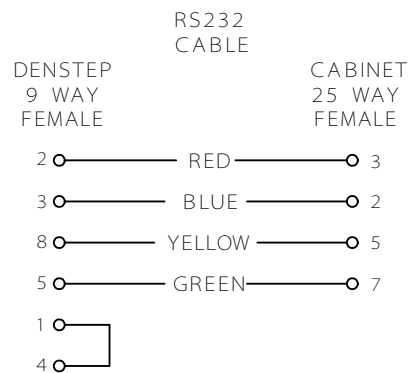










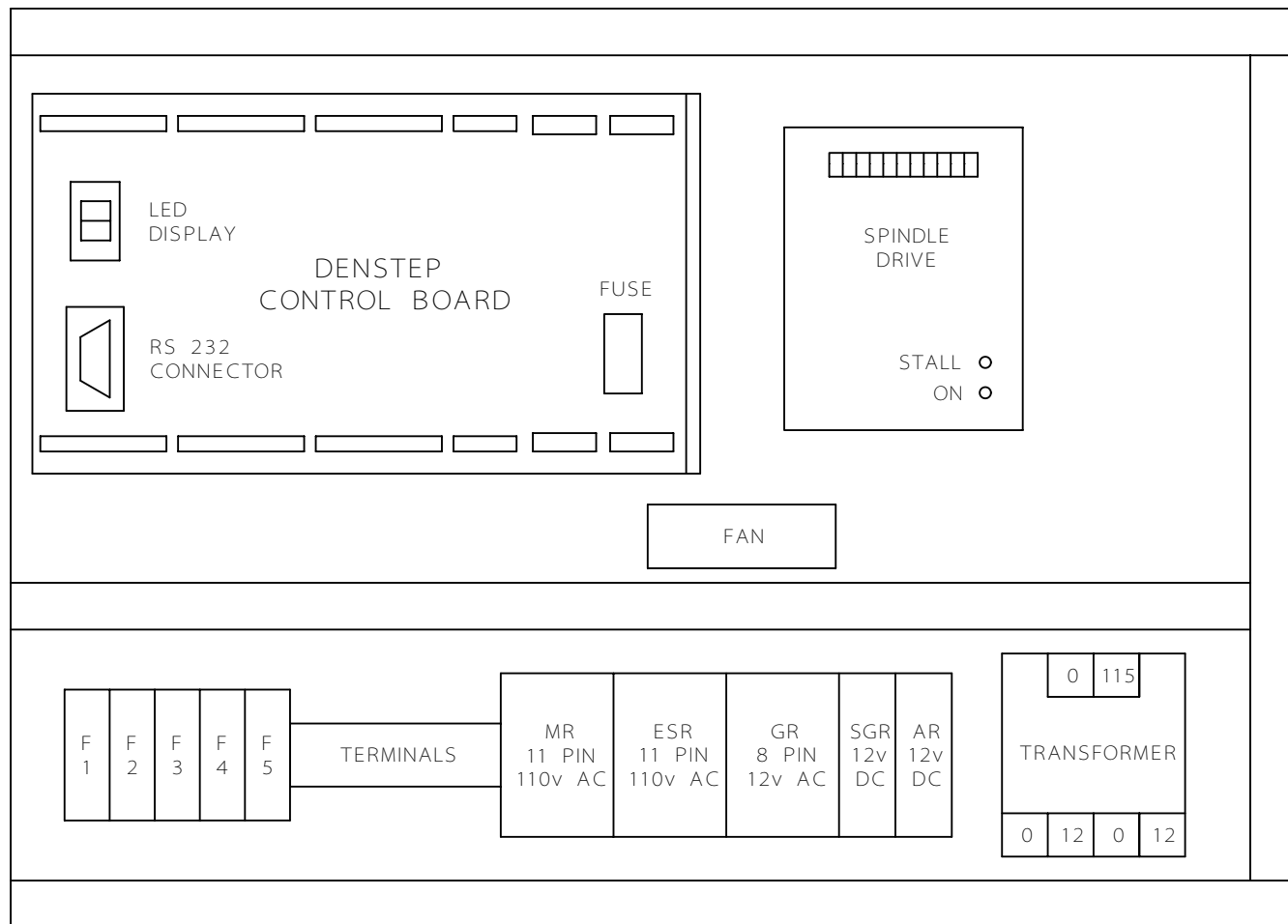


600mm  
4 CORE SCREEN CABLE

AUXILIARY  
CONNECTOR

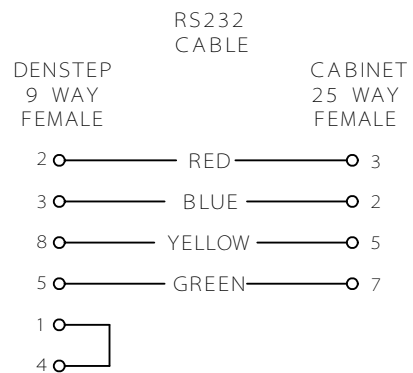


8 WAY QM (RS 467 - 194)  
FEMALE PINS (RS 468 - 557)



RELAY NAMES  
MR MAIN RELAY  
ESR EMERGENCY STOP RELAY  
GR GUARD RELAY  
SGR SPINDLE GO RELAY  
AR AUXILIARY RELAY

|   |           |
|---|-----------|
| MICROMILL 2000<br>PANEL LAYOUT<br>AND RS232 CABLE | SHEET 4   |
|   | MICROMILL |
|   | DENSTEP   |

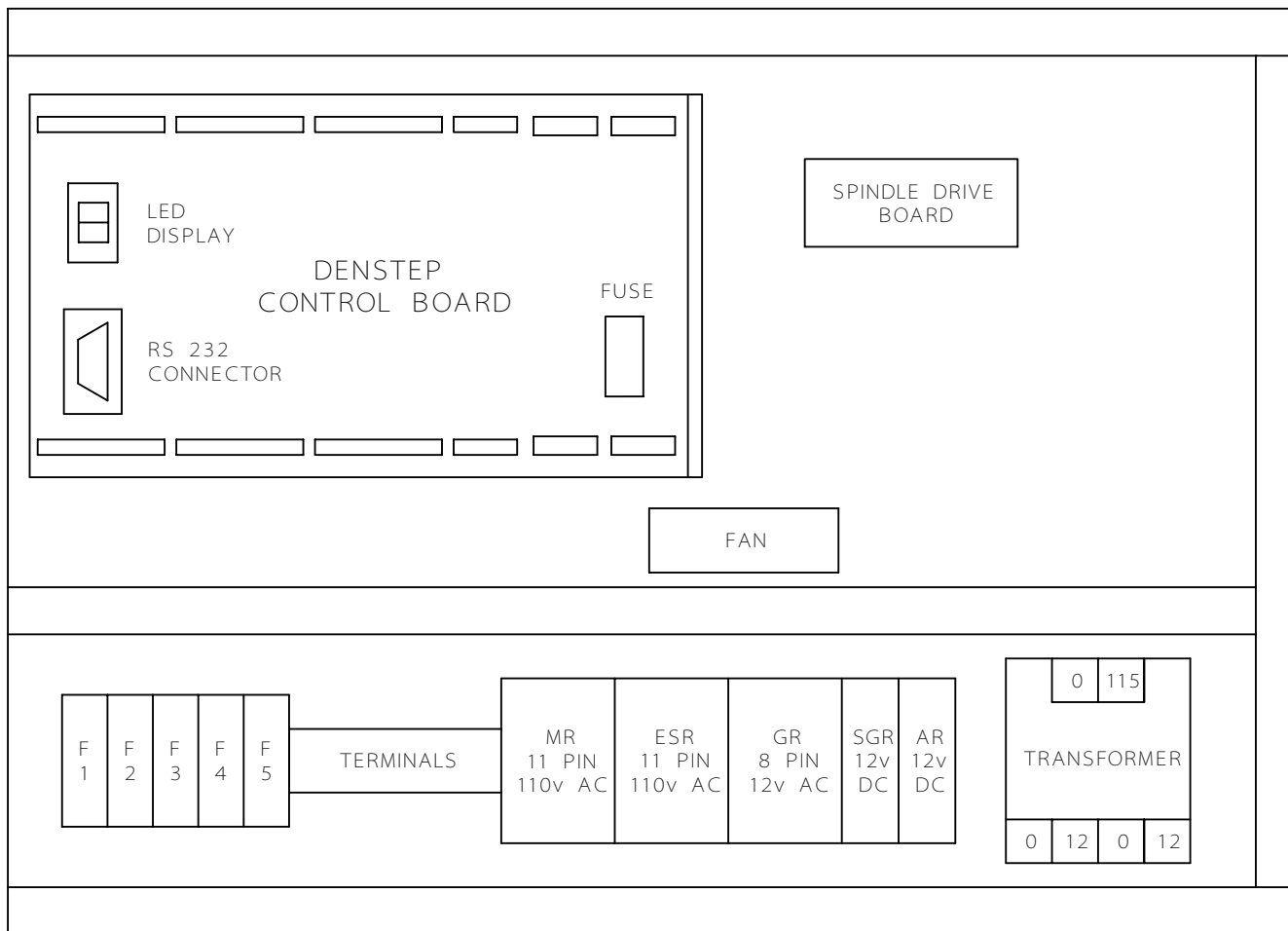


600mm  
4 CORE SCREEN CABLE

AUXILIARY CONNECTOR

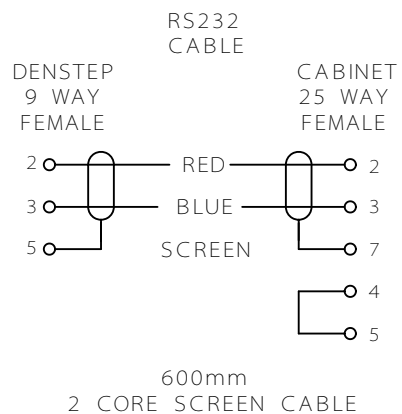


8 WAY QM (RS 467 - 194)  
FEMALE PINS (RS 468 - 557)



RELAY NAMES  
MR MAIN RELAY  
ESR EMERGENCY STOP RELAY  
GR GUARD RELAY  
SGR SPINDLE GO RELAY  
AR AUXILIARY RELAY

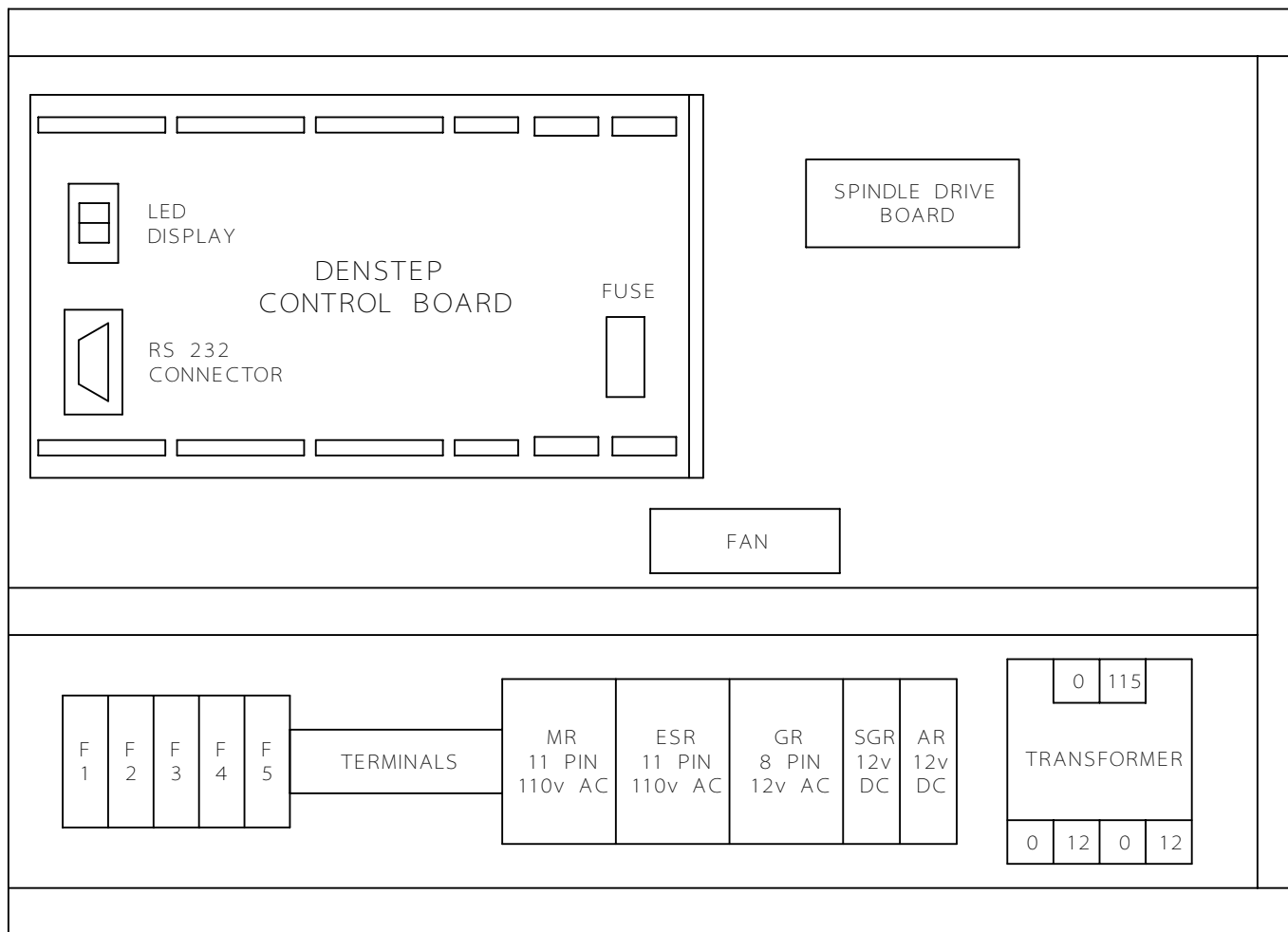
|   |           |
|---|-----------|
| MICROMILL 2000<br>PANEL LAYOUT<br>AND RS232 CABLE | SHEET 4   |
|   | MICROMILL |
|   | DENSTEP   |



AUXILIARY CONNECTOR



8 WAY QM (RS 467 - 194)  
FEMALE PINS (RS 468 - 557)



RELAY NAMES

MR MAIN RELAY

ESR EMERGENCY STOP RELAY

GR GUARD RELAY

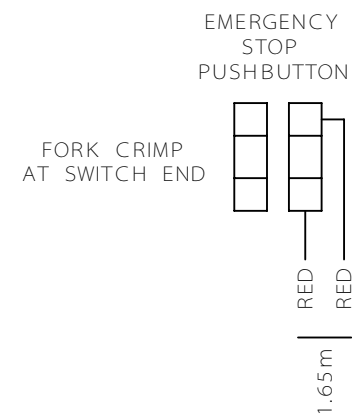
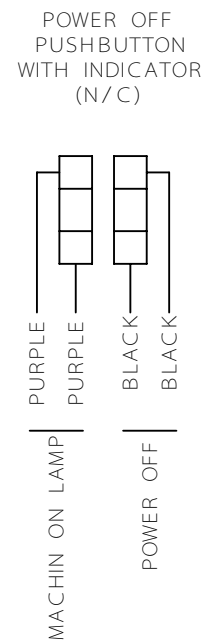
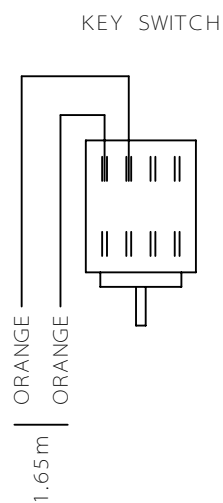
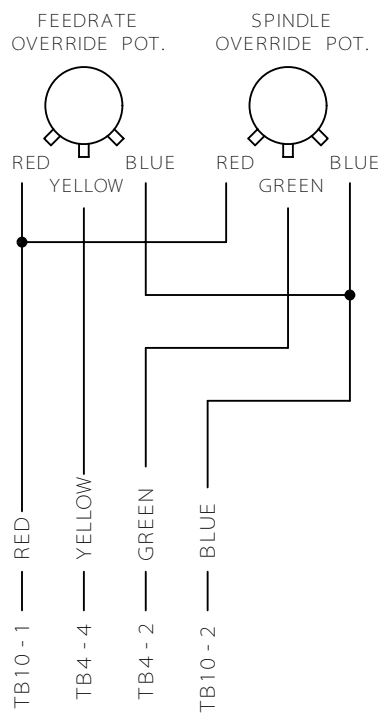
SGR SPINDLE GO RELAY

AR AUXILIARY RELAY

MICROMILL 2000  
PANEL LAYOUT  
AND RS232 CABLE

SHEET 4  
MICROMILL  
DENSTEP





#### SPINDLE MOTOR

|        |       |            |
|--------|-------|------------|
| RED    | 650mm | FERRULE    |
| BLACK  | 650mm | FERRULE    |
| ORANGE | 1.4m  | FERRULE    |
| WHITE  | 1.1m  | FORK CRIMP |
| GREEN  | 650mm | FERRULE    |

#### STEPPER MOTOR (VEXTA) (PK 266 - E 2.0A)

|          |        |              |
|----------|--------|--------------|
| RED      | RED    |              |
| BROWN *  |        |              |
| WHITE    | YELLOW | X AXIS 1.1m  |
| BLUE     |        | Y AXIS 1.75m |
|          |        | Z AXIS 1.15m |
| BLACK    |        |              |
| ORANGE * | ORANGE | FERRULE      |
| GREEN    |        |              |
| YELLOW   | BLACK  |              |

#### DATUM SWITCHES

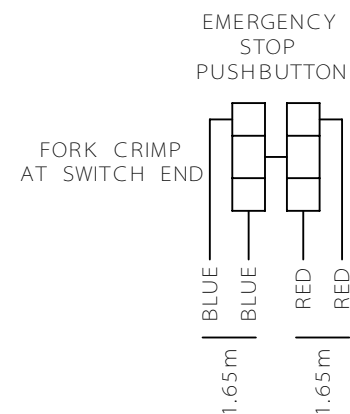
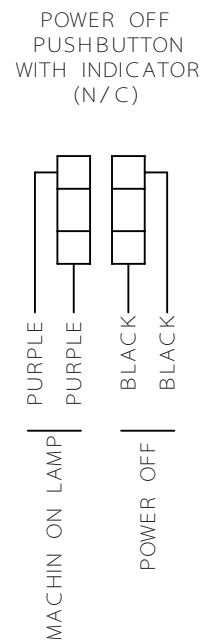
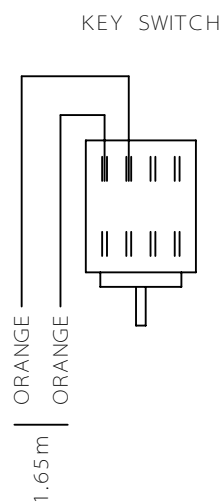
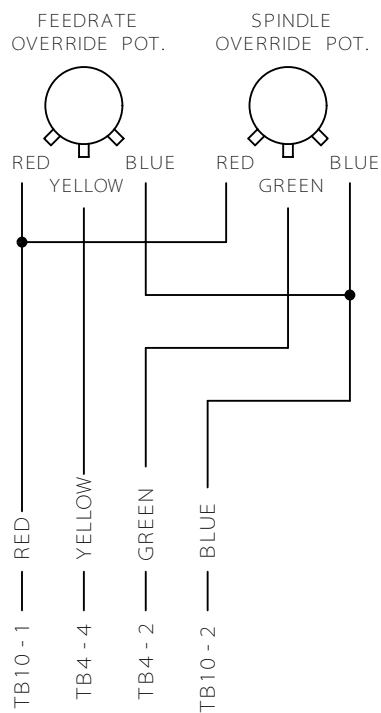
90° CRIMPS AT SWITCH END WITH  
180mm BLACK HEATSHRINK  
FERRULES AT PANEL END

|        |      |        |
|--------|------|--------|
| X AXIS | 1.1m | GREY   |
| Y AXIS | 1.9m | PINK   |
| Z AXIS | 1m   | PURPLE |

\* ENSURE THAT CORRECT COLOURS ARE USED

MICROMILL 2000  
SWITCH AND MOTOR  
WIRING DETAILS

SHEET 5  
MICROMILL  
DENSTEP



#### SPINDLE MOTOR

|        |       |            |
|--------|-------|------------|
| RED    | 650mm | FERRULE    |
| BLACK  | 650mm | FERRULE    |
| ORANGE | 1.4m  | FERRULE    |
| WHITE  | 1.1m  | FORK CRIMP |
| GREEN  | 650mm | FERRULE    |

#### STEPPER MOTOR (VEXTA) (PK 266 - E 2.0A)

|          |        |              |
|----------|--------|--------------|
| RED      | RED    |              |
| BROWN *  |        |              |
| WHITE    | YELLOW | X AXIS 1.1m  |
| BLUE     |        | Y AXIS 1.75m |
|          |        | Z AXIS 1.15m |
| BLACK    |        |              |
| ORANGE * | ORANGE | FERRULE      |
| GREEN    |        |              |
| YELLOW   | BLACK  |              |

#### DATUM SWITCHES

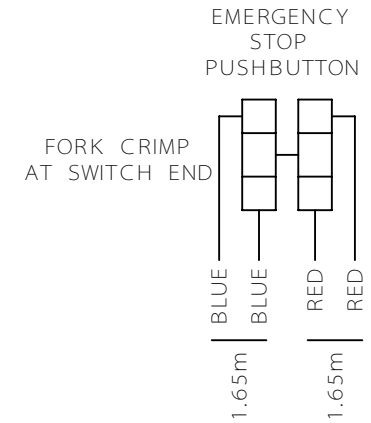
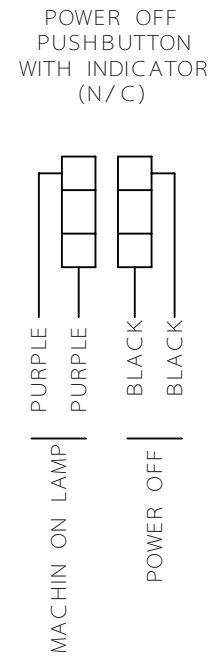
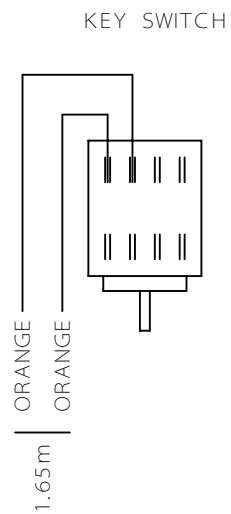
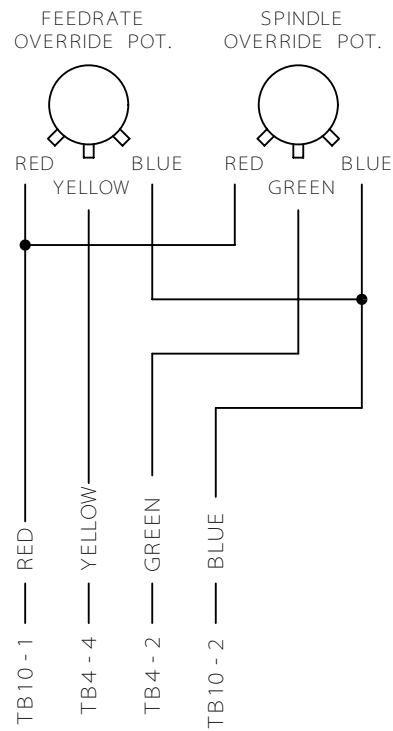
90° CRIMPS AT SWITCH END WITH  
180mm BLACK HEATSHRINK  
FERRULES AT PANEL END

|        |      |        |
|--------|------|--------|
| X AXIS | 1.1m | GREY   |
| Y AXIS | 1.9m | PINK   |
| Z AXIS | 1m   | PURPLE |

\* ENSURE THAT CORRECT COLOURS ARE USED

MICROMILL 2000  
SWITCH AND MOTOR  
WIRING DETAILS

SHEET 5  
MICROMILL  
DENSTEP



#### SPINDLE MOTOR

|        |       |            |
|--------|-------|------------|
| RED    | 650mm | FERRULE    |
| BLACK  | 650mm | FERRULE    |
| ORANGE | 1.4m  | FERRULE    |
| WHITE  | 1.1m  | FORK CRIMP |
| GREEN  | 650mm | FERRULE    |

#### STEPPER MOTOR (SANYO DENKI) (103 H 7123 - 0440)

|        |               |
|--------|---------------|
| RED    | RED           |
| BLACK  | BLACK         |
| ORANGE | ORANGE        |
| WHITE  | YELLOW        |
| BLUE   | NOT CONNECTED |
| YELLOW |               |

|        |       |         |
|--------|-------|---------|
| X AXIS | 1.1m  | FERRULE |
| Z AXIS | 1.75m |         |

#### DATUM SWITCHES

90° CRIMPS AT SWITCH END WITH  
180mm BLACK HEATSHRINK  
FERRULES AT PANEL END

|        |      |        |
|--------|------|--------|
| X AXIS | 1.1m | GREY   |
| Y AXIS | 1.9m | PINK   |
| Z AXIS | 1m   | PURPLE |

|  |           |
|--|-----------|
| MICROMILL 2000<br>SWITCH AND MOTOR<br>WIRING DETAILS | SHEET 5   |
|  | MICROMILL |
|  | DENSTEP   |