P/N 101401-017-Type 1

130SS Input Power Switch Replacement
TYPE 1

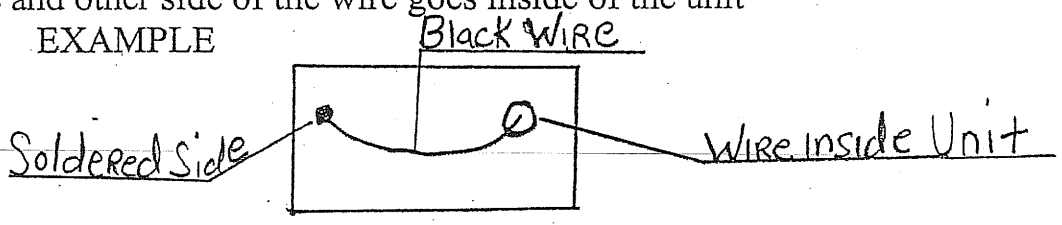
Tools and Parts required

- Insulated Terminals (2)
- Heat Shrink (4 pcs)
- On/Off tab (1)
- Power Switch
- Gray Plate (1)
- Wire lock connections (2)

½ inch drill bit (not provided)

A type 1 unit has a black wire soldered on one side of the power board outer side and other side of the wire goes inside of the unit

EXAMPLE



P/N 101401-017-Type2

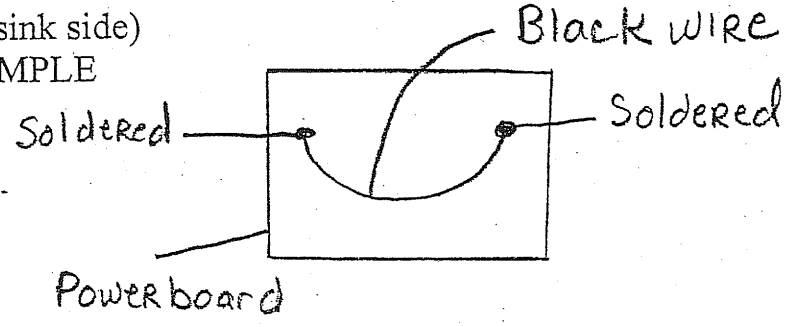
130SS Input Power Switch Replacement
TYPE 2
SWITCH HOOK UP FOR 115VAC

Tools and Parts required

- Insulated Terminals (2)
- Heat Shrink (3 pcs)
- On/Off tab (1)
- Black Wire (1)
- ½ inch drill bit (not provided)
- Gray Plate (1)
- Wire lock connections (2)
- Power Switch(1)

A type 2 unit has a black wire soldered on the outside of the power board (Black heatsink side)

EXAMPLE



⚠ DANGER

READ ENTIRE PROCEDURE PRIOR TO PERFORMANCE OF VOLTAGE CHANGE-OVER.

IN ORDER TO AVOID AN ELECTRICAL SHOCK, THE UNIT MUST BE TURNED OFF AND DISCONNECTED FROM THE INPUT CIRCUIT PRIOR TO PERFORMING THE VOLTAGE CHANGE-OVER PROCEDURE. TURN POWER SWITCH ON REAR PANEL TO "0".

PROCEDURE FOR INPUT VOLTAGE CHANGE-OVER

⚠ DANGER

NOTE

READ ENTIRE PROCEDURE PRIOR TO PERFORMANCE OF VOLTAGE CHANGE-OVER.

IN ORDER TO AVOID AN ELECTRICAL SHOCK, THE UNIT MUST BE TURNED OFF AND DISCONNECTED FROM THE INPUT CIRCUIT PRIOR TO PERFORMING THE VOLTAGE CHANGE-OVER PROCEDURE.

A. Locate the power switch on the rear panel. See figure 2.

B. Remove the switch knob by loosening the screw in the center of the knob. Retain screw for re-installing the knob.

C. Locate the voltage change-over insert installed in the bottom of the knob as shown in figure 3.

Input voltage selection is set by aligning the index shaft on the insert either on the same side of the knob as the white index mark on the top of the knob - allowing 220V operation, or aligning the index shaft on the opposite side of the white index mark on the top of the knob - allowing 115V operation.

Do not attempt to operate the **PowCon** 130SS without the voltage change-over insert installed in one of these two locations.

D. Place knob on switch shaft with white index mark aligned with "0" on the rear panel, re-install and tighten screw.

NOTE

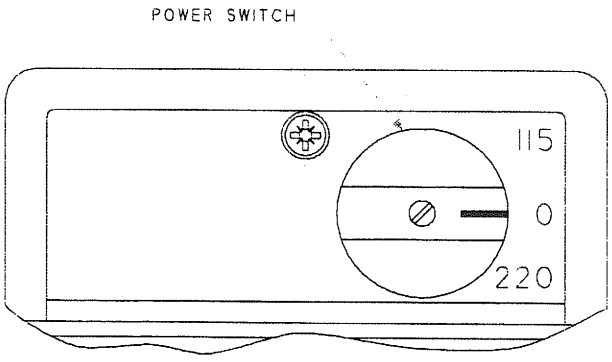


Figure 2, Voltage Change-Over

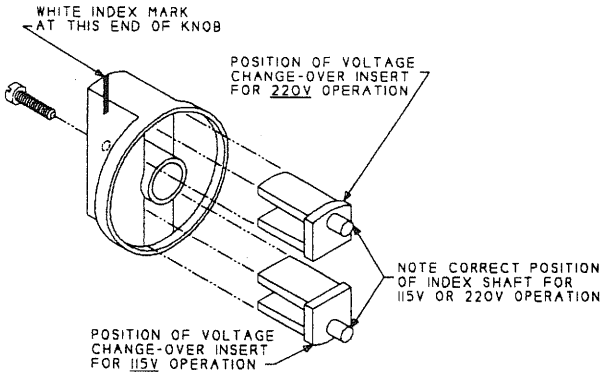


Figure 3, Voltage Change-Over

FUNCTION OF OPERATING CONTROLS AND CONNECTORS

1. AMP (weld current output)

This control is used to adjust the welder output to the required current. The numbered scale provides a direct read-out of the welding current values. This control can be adjusted while welding to fine tune the arc.

2. MALFUNCTION INDICATOR (Red)

Alerts the operator of possible problems in the 130SS electronic circuits. If this indicator lights, turn the unit off for a few seconds and then turn it back on. If the indicator remains on after this test, do not continue trying to use the 130SS - call the service network.

3. TEMPERATURE INDICATOR (Yellow)

When the 130SS duty cycle is exceeded or there is a blockage of cooling air, an over-temperature condition will result and this indicator will light. If this occurs, stop welding but leave the 130SS on so that the fan can dissipate the excess heat. Check for blocked air inlet or outlet.

4. POWER INDICATOR (Green)

A green light will come on when the power switch on the rear panel is switched to 115 or 220 indicating the 130SS is ready to weld.

5. REMOTE

This is a connection for remote contact closure and is used with remote control devices.

6. OUTPUT TERMINALS

Quick connect T-25 female receptacles with polarity as marked. Operator should ensure tight connections to prevent power loss and overheating.

7. POWER SWITCH (Input voltage change-over)

This switch is used to turn the incoming primary power on and set the 130SS input operating voltage (Described previously in this manual)

8. PRIMARY POWER CABLE

Strain relief and cable for connection to primary power.

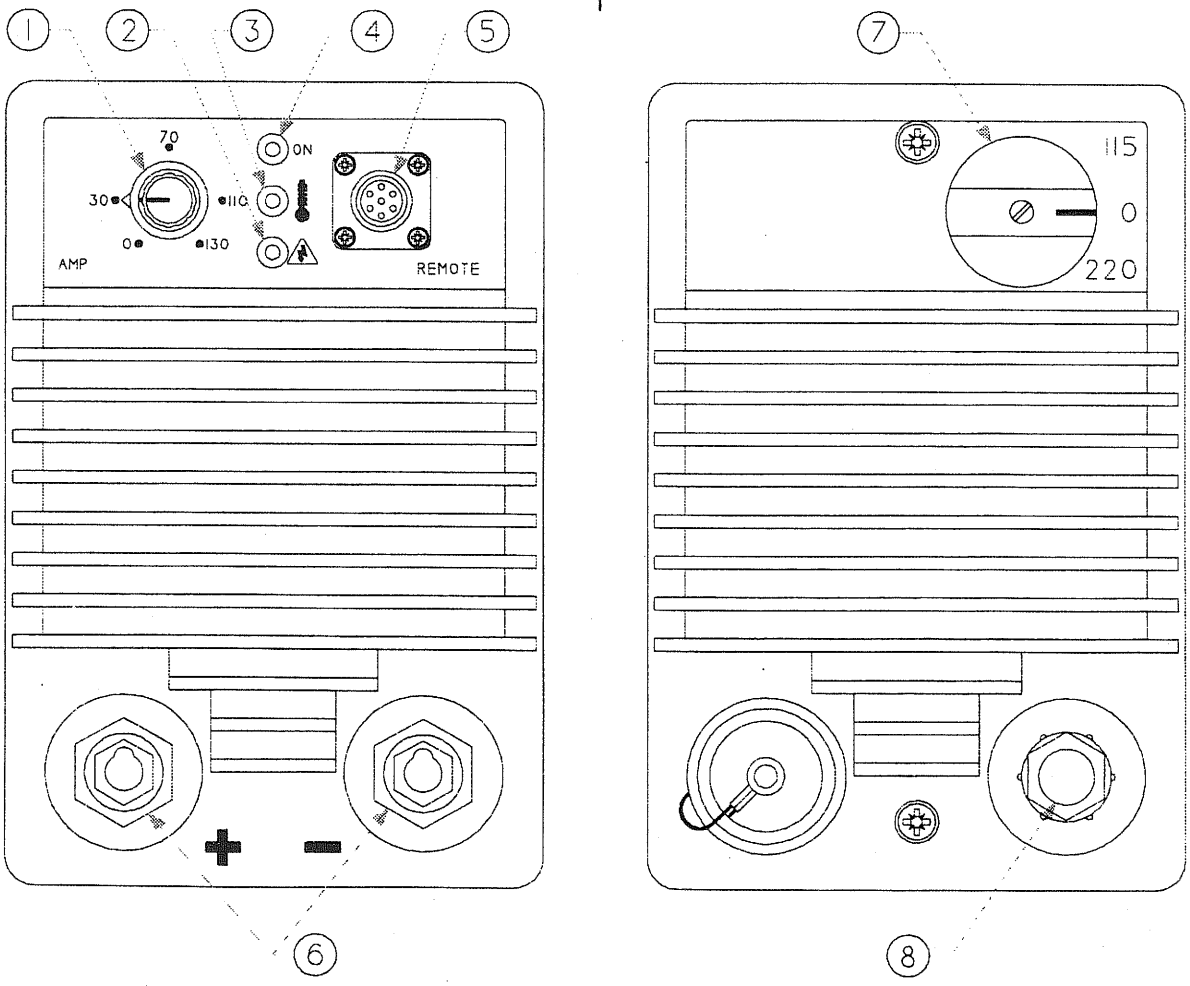


Figure 4, Function of Operating Controls and Connectors

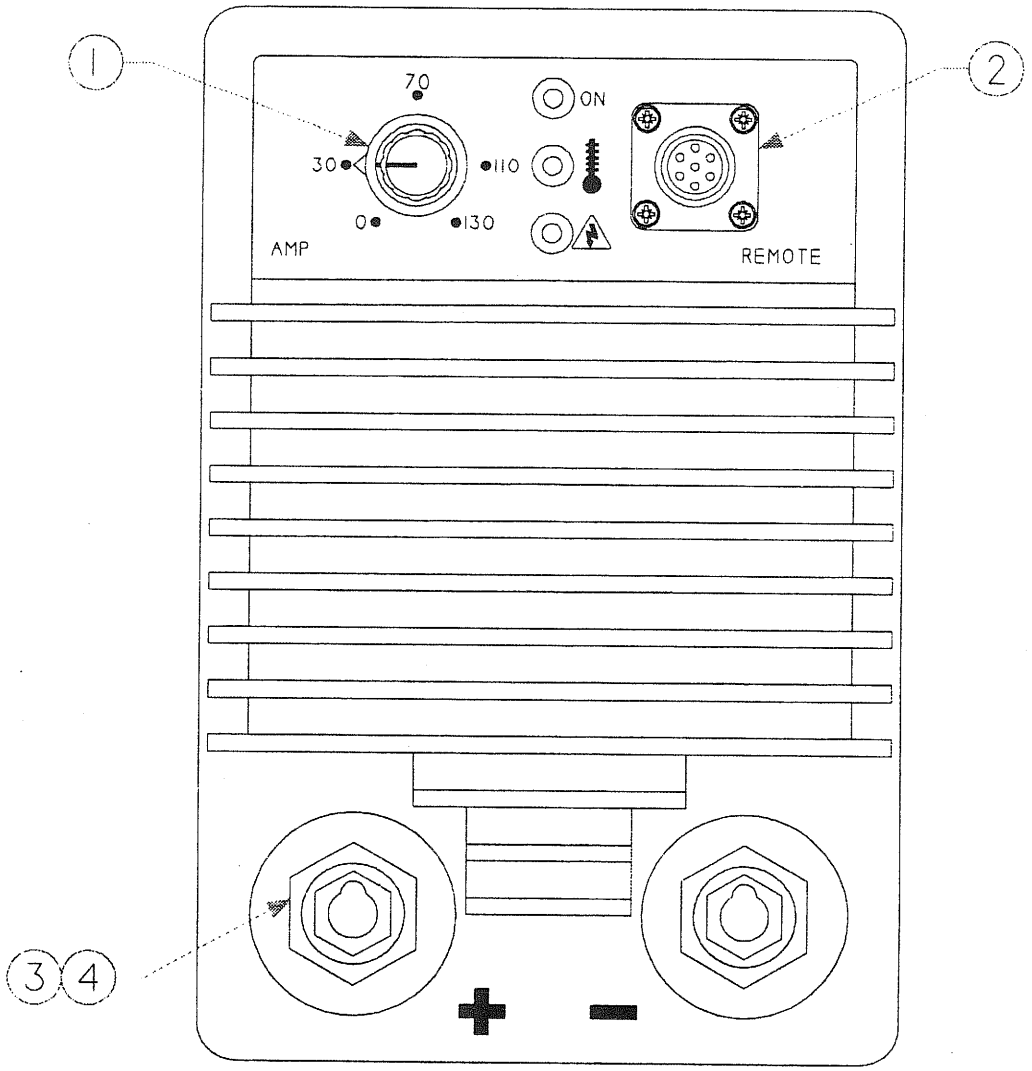


Figure 5, Front Panel Spare Parts

Item No.	Qty.	Part Number	Description
1	1	101401-011	Knob, Amp Control
2	1	101401-033	Connector, 7 Pin
3	2	101401-013	Ring, Securing
4	2	101401-014	Connector, T-25 Output
NS*	1	101401-015	Strap, Carrying
NS*	1	101401-016	Main Chassis Assembly

NS* - Not Shown

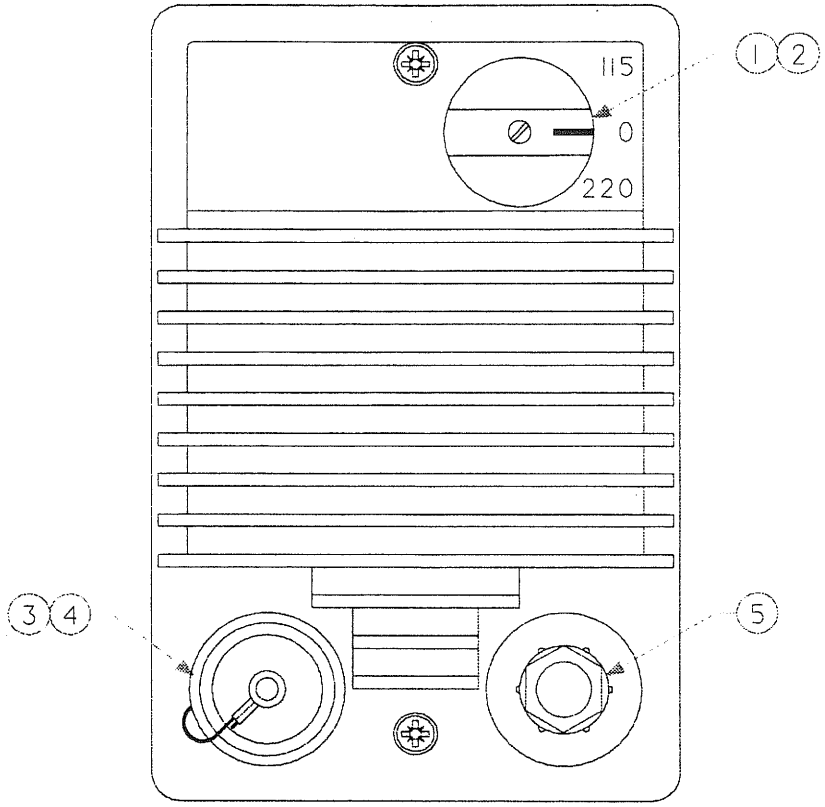
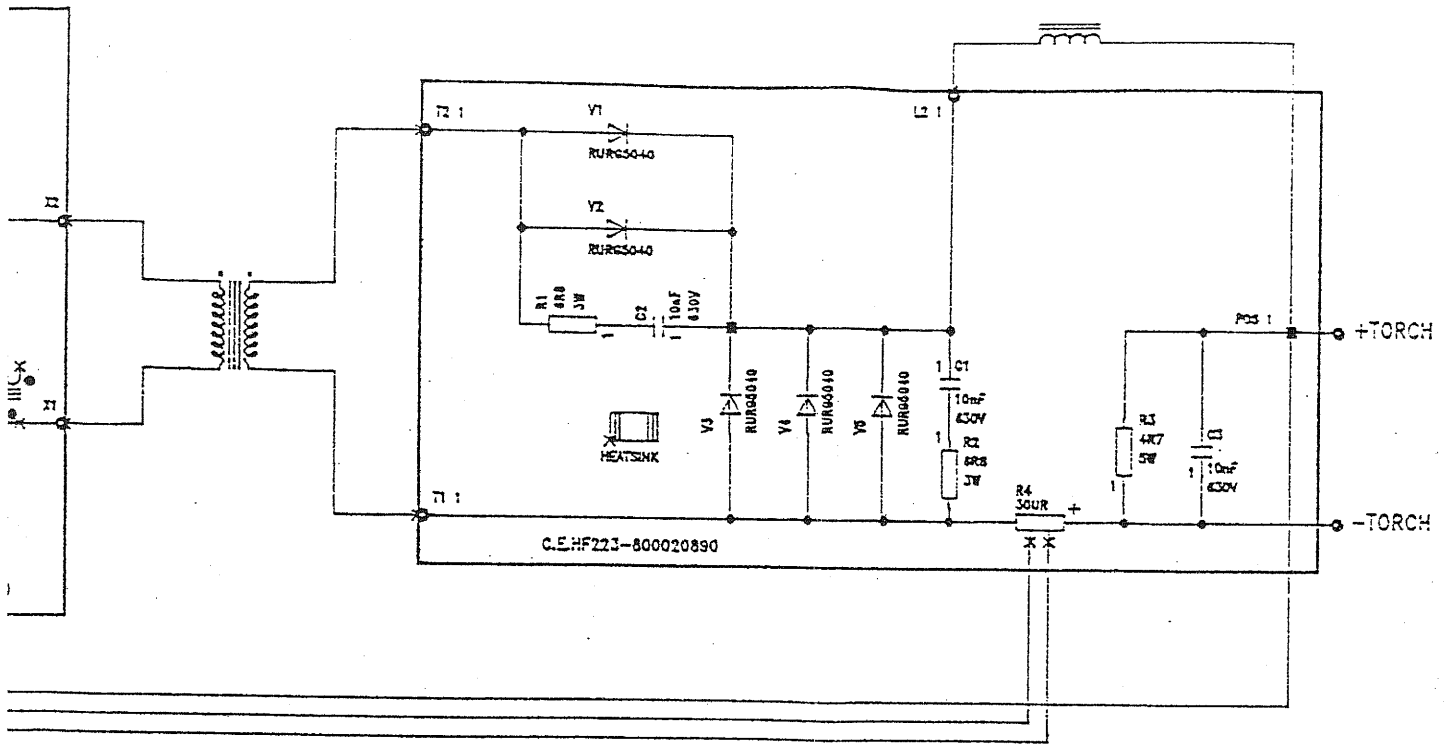
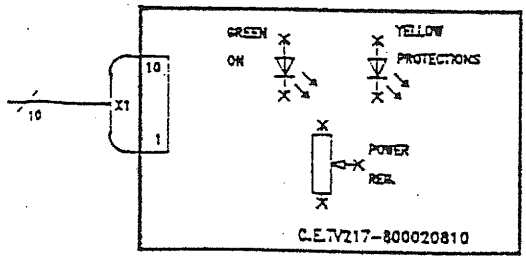


Figure 6, Rear Panel Spare Parts

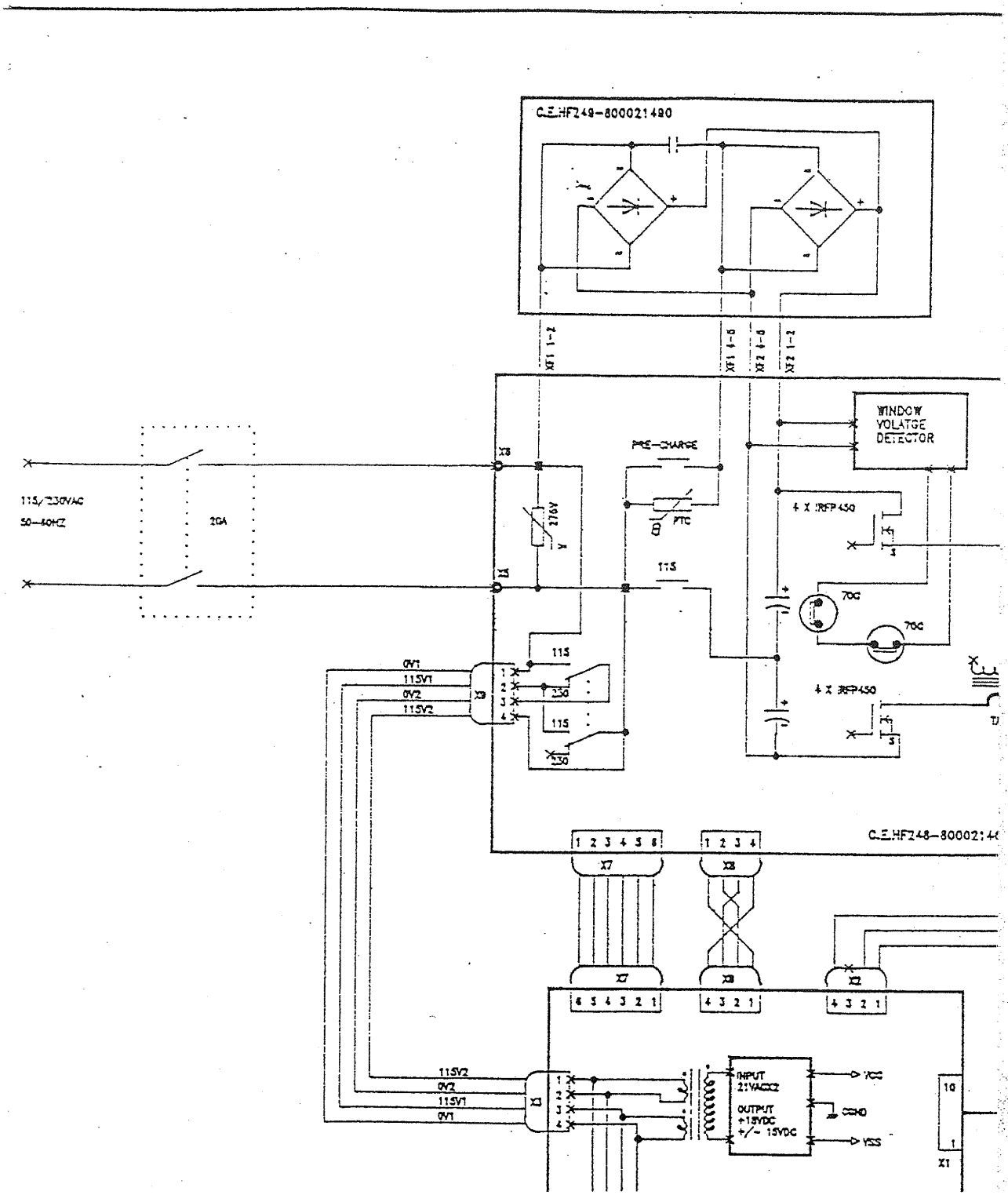
Item No.	Qty.	Part Number	Description
1	1	101401-017	Knob, Power Switch
2	1	101401-018	Insert, Voltage Change Over
3	1	101401-031	4 Pin Connector
4	1	101401-032	Cover
5	1	101401-021	Clamp, Cable
NS*	2	101401-022	Foot, Rear Rubber
NS*	1	101401-029	Nylon Belt
NS*	1	101401-016	Main Chassis Assembly
NS*	2	101401-027	Handle Mount
NS*	1	101401-028	Metal Handle
NS*	2	101401-030	Handle Mount Screw

NS* - Not Shown


T2 1
V1
RURG5040
V2
RURG5040
R1
6R8
3W
C2
10nF
630V
V3
RURG6040
V4
RURG6040
V5
RURG6040
HEATSINK
L2 1
C1
10nF
630V
R2
6R8
3W
R4
30UR
P03 1
+TORCH
R3
4K7
5W
C3
10nF
630V
-TORCH
T1 1
C.E.HF223-800020890


GREEN
ON
YELLOW
PROTECTIONS
POWER
REL
10
1
X1
C.E.TVZ17-800020810

13055


C.E.HF249-800021490
XF1 1-2
XF1 4-6
XF2 4-6
XF2 1-2
WINDOW
VOLATGE
DETECTOR
PRE-CHARGE
115/230VAC
50-60HZ
2DA
X3
X4
276V
PTC
115
4 X IRFP450
70C
70C
4 X IRFP450
0V1
115V1
0V2
115V2
X9
250
250
C.E.HF248-800021
X7
X8
X2
X1
INPUT
2:1VAC0C2
OUTPUT
+15VDC
+/- 15VDC
VCC
COM0
VSS
10
1