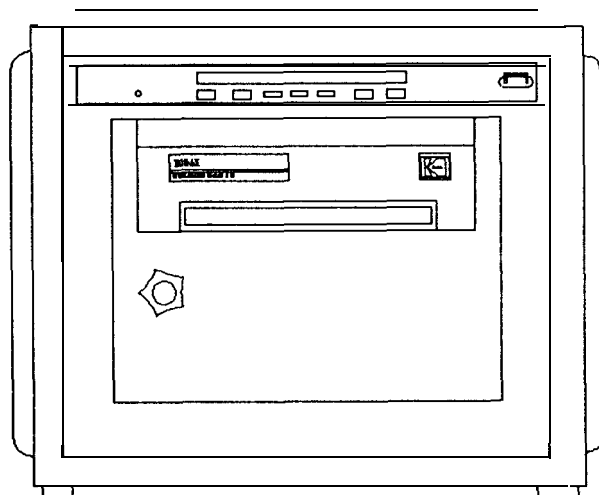


MINILOADER MODEL 1M

COMPONENT LOCATOR



FEBRUARY 1992

SERVICE CODES : - 3234/ 3235

PRINTED CIRCUIT BOARDS.

PCB 301 MICROPROCESSOR PCB and RELAYS
 PCB 302 DISPLAY PCB
 PCB 303 ESR KEYPAD, PHOTOCCELL AMPLIFIERS and PRINTER INTERFACE
 PCB 304 LED PCB (green, yellow and red)
 PCB 206 TRANSFORMER SECONDARY FUSES

FUSES

F1	.... COMPRESSOR MOTOR	T 2 AMP (PCB 301)	FIG 1
F2	.... VACUUM PUMP, CASSETTE	T 2 AMP (PCB 301)	FIG 1
F3	.... VACUUM PUMP, MAGAZINE	T 2 AMP (PCB 301)	FIG 1
F4	.... FAN MOTOR	T 2 AMP (PCB 301)	FIG 1
F5	.... TILT MOTOR	T 2 AMP (PCB 301)	FIG 1
F6	...* CONVEYOR BELT MOTOR	T 6.3 AMP (PCB 301) ..	FIG 1
F7	.... CAM MOTOR	T 6.3 AMP (PCB 301) ..	FIG 1
F13	.... SOLENOID VALVE SV2, MAGAZINE INJECTOR	T 4 AMP (PCB 301)	FIG 1
F16	.... RELAY 12 VOLT DC PROTECTION	T 1 AMP (PCB 301)	FIG 1
F17	.... SOLENOID VALVE SV4, MAGAZINE SUCKERS	T 4 AMP (PCB 301)	FIG 1
F18	.... SOLENOID VALVE SV3, CASSETTE SUCKERS 18 x 24 ..	T 4 AMP (PCB 301)	FIG 1
F19	.... SOLENOID VALVE SV5, PRESSURE VENT	T 4 AMP (PCB 301)	FIG 1
F20	.... SOLENOID VALVE SV1, CASSETTE INJECTOR	T 4 AMP (PCB 301)	FIG 1
F22	.... SECONDARY WINDING, 15 VOLTS AC (RELAYS)	T 4 AMP (PCB 206)	FIG 2
F23	.... SECONDARY WINDING, 12 VOLTS AC (MOTORS)	T 16 AMP (PCB 206) ...	FIG 2
F24	.... SECONDARY WINDING, 10 VOLTS AC (P.CELL & MICRO) ..	T 10 AMP (PCB 206) ...	FIG 2

RELAYS.

K1	..... COMPRESSOR MOTOR	PCB 301	FIG 1
K2	..... CASSETTE VACUUM PUMP MOTOR	PCB 301	FIG 1
K3	..... MAGAZINE VACUUM PUMP MOTOR	PCB 301	FIG 1
K5	..... TILT MOTOR	PCB 301	FIG 1
K6-F	.... CONVEYOR BELT MOTOR, FORWARD	PCB 301	FIG 1
K6-R	.... CONVEYOR BELT MOTOR, REVERSE	PCB 301	FIG 1
K7-F	.... CAM MOTOR, FORWARD	PCB 301	FIG 1
K7-R	.... CAM MOTOR, REVERSE	PCB 301	FIG 1
K13	..... SOLENOID VALVE SV2, MAGAZINE INJECTOR	PCB 301	FIG 1
K17	..... SOLENOID VALVE SV4, MAGAZINE SUCKERS	PCB 301	FIG 1
Y18	..... SOLENOID VALVE SV3, CASSETTE SUCKERS 18 x 24	PCB 301	FIG 1
K19	..... SOLENOID VALVE SV5, PRESSURE VENT	PCB 301	FIG 1
K20	..... SOLENOID VALVE SV1, CASSETTE INJECTOR	PCB 301	FIG 1
K22	..... PROCESSOR STAND-BY	PCB 301	FIG 1

MICROSWITCHES.

MS1	.... RECEIVING MAGAZINE PRESENCE (STAND-ALONE VERSION ONLY)
MS2	.... SUPPLY MAGAZINE PRESENCE
MS3	.... TILT MOTOR, HOME POSITION
MS4	.... TILT MOTOR, TILT ON POSITION

PHOTOCELLS.

FC1 . . .	CASSETTE AT ENDSTOP plus FILM IN CASSETTE	PCB 303	... FIG 3
FC2 . . .	CASSETTE ENTERED	PCB 303	... FIG 3
FC3 . . .	CASSETTE OPENED SIGNAL	PCB 303	... FIG 3
FC4 . . .	FILM STUCK ON UPPER SCREEN	PCB 303	... FIG 3
FC5 . . .	SUPPLY MAGAZINE NEARLY EMPTY	PCB 303	... FIG 3
FC6 . . .	SUPPLY MAGAZINE EMPTY plus SERIAL MAGAZINE CODE	PCB 303	... FIG 3
FC7 . . .	FILM IN UPPER CHUTE (PROCESSOR INTERFACE VERSION) or RECEIVING MAGAZINE FULL (STAND-ALONE VERSION)	PCB 303	... FIG 3
FC8 . . .	MULTIPLE FILM LOAD	PCB 303	... FIG 3
FC9 . . .	FILM IN LOWER CHUTE (VERTICAL INTERFACE VERSION ONLY)	PCB 303	... FIG 3
FC10 . .	SUPPLY MAGAZINE OPEN	PCB 303	... FIG 3
FC11 . .	RECEIVING MAGAZINE OPEN (STAND-ALONE VERSION ONLY)	PCB 303	... FIG 3

MOTORS.

M1	COMPRESSOR MOTOR
M2	CASSETTE VACUUM PUMP MOTOR
M3	MAGAZINE VACUUM PUMP MOTOR
M4	FAN MOTOR
M5	TILT MOTOR
M6	CASSETTE CONVEYOR MOTOR
M7	CAM MOTOR

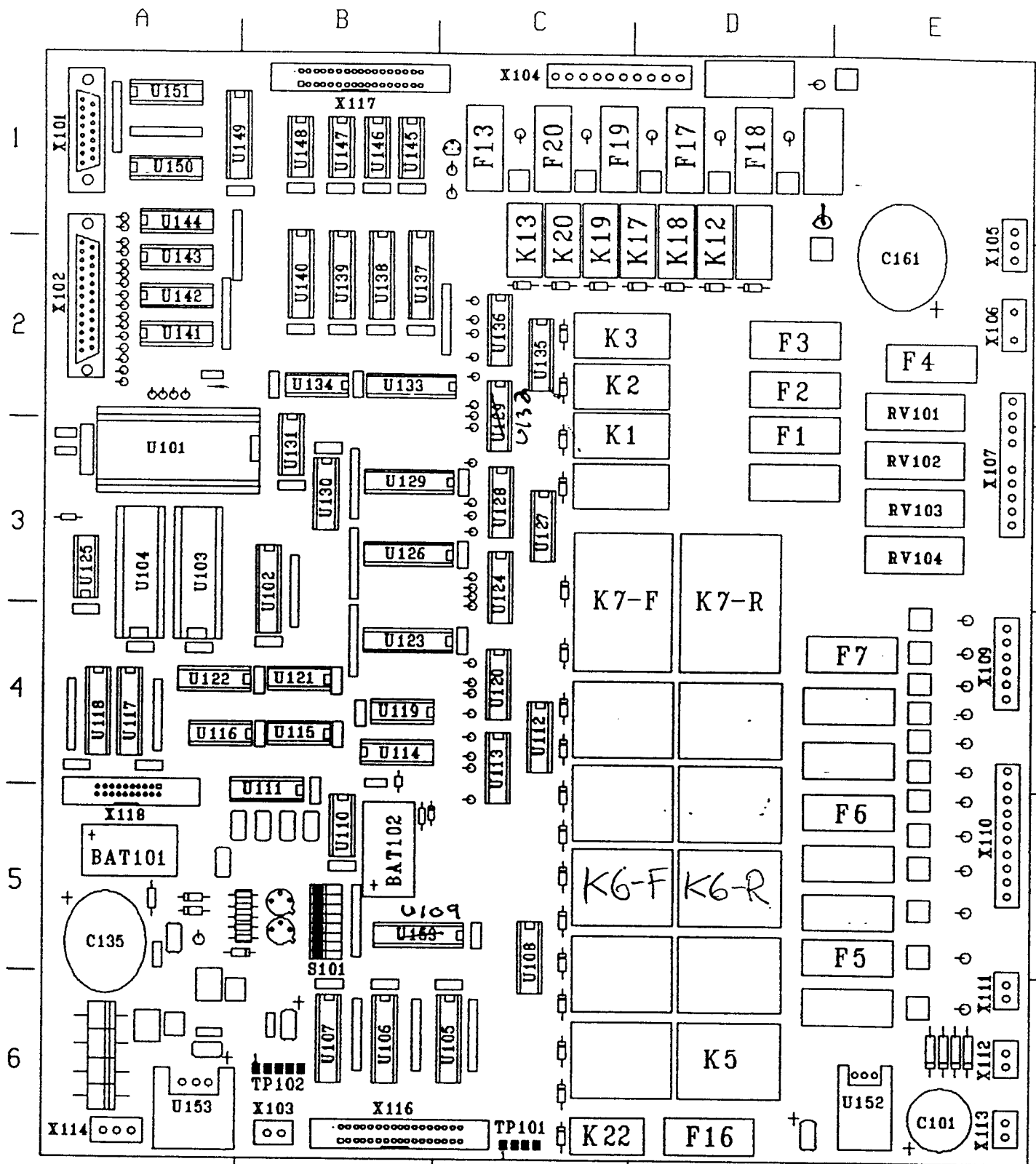
SOLENOID VALVES.

SV1	CASSETTE INJECTOR
SV2	MAGAZINE INJECTOR
SV3	18 x 24 and 8 x 10 CASSETTE SUCKERS
SV4	MAGAZINE SUCKERS
SV5	PRESSURE VENT - AT END OF CYCLE

TEST POINTS.

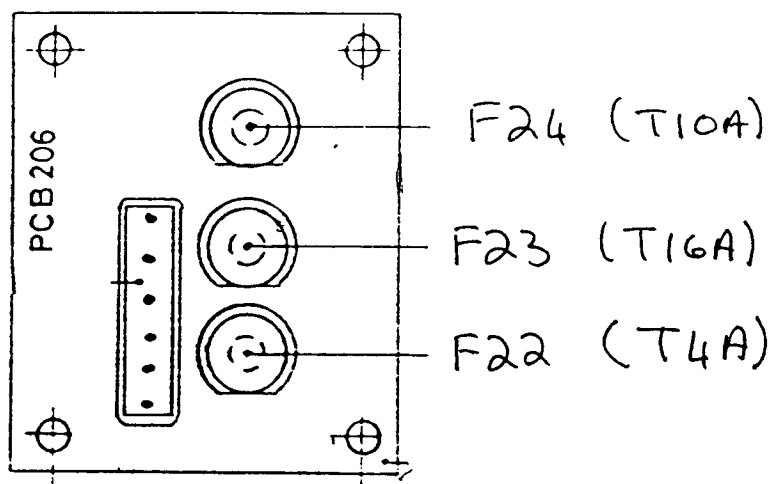
SEE FIGURE 5

		PINS			
		+			
-TP101 PCB 301	12 VOLT DC, RELAYS	2	<i>u</i>	1	11 - 12.6 V DC
	12 VOLT DC, MOTORS	3	<i>u</i>	4	approx 15 V DC on NO-LOAD
TP102 PCB 301	5 VOLT DC, MICROPROCESSOR	2	<i>u</i>	1	4.8 - 5.2 V DC
	12 VOLT DC, SENSORS	3	<i>u</i>	1	10 - 12 v DC
	CLOCK 11340 MHz	4	<i>u</i>	1	
	POWER ON RESET	5	<i>u</i>	1	



PCB301RF

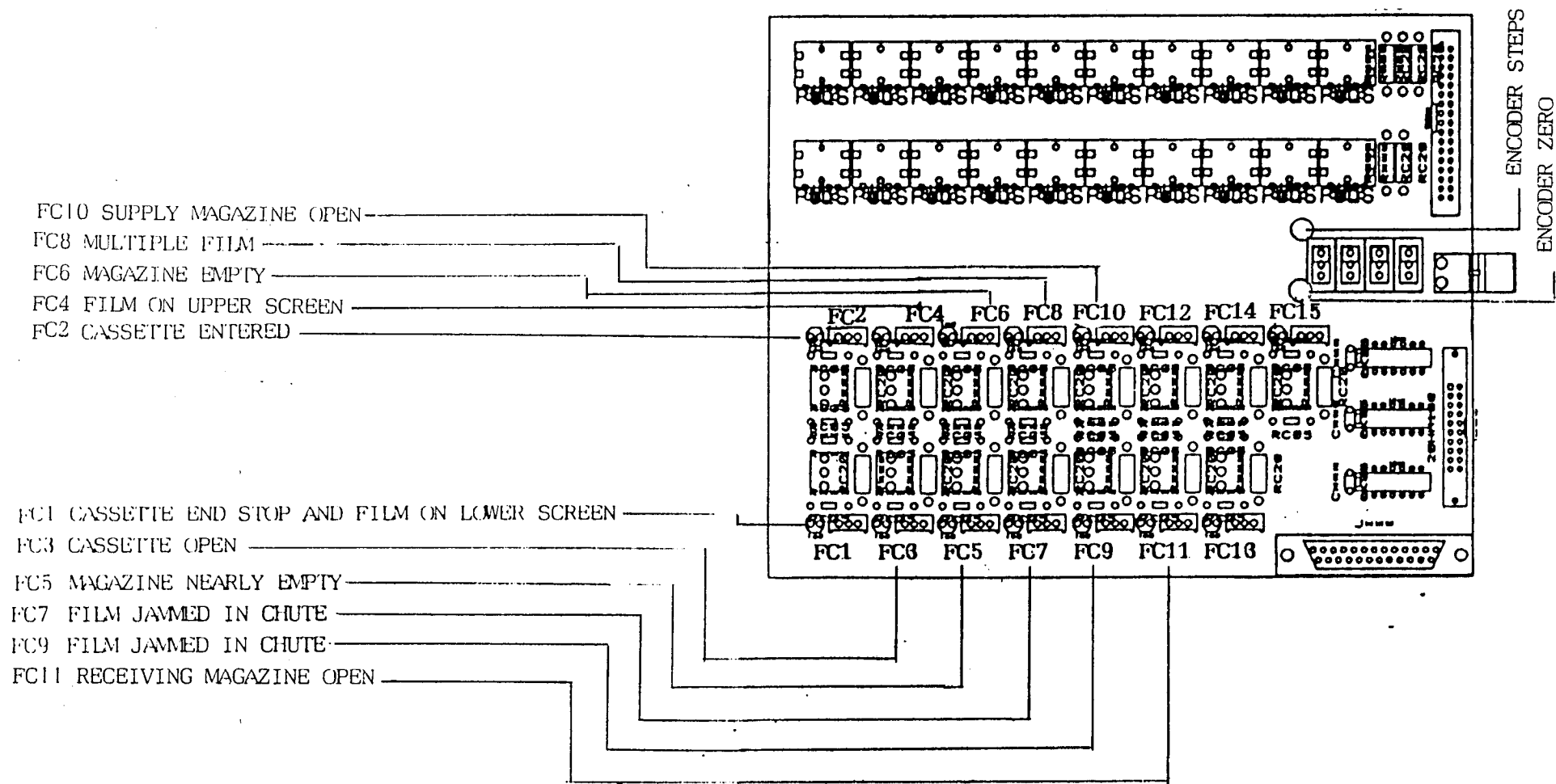
FIG 1

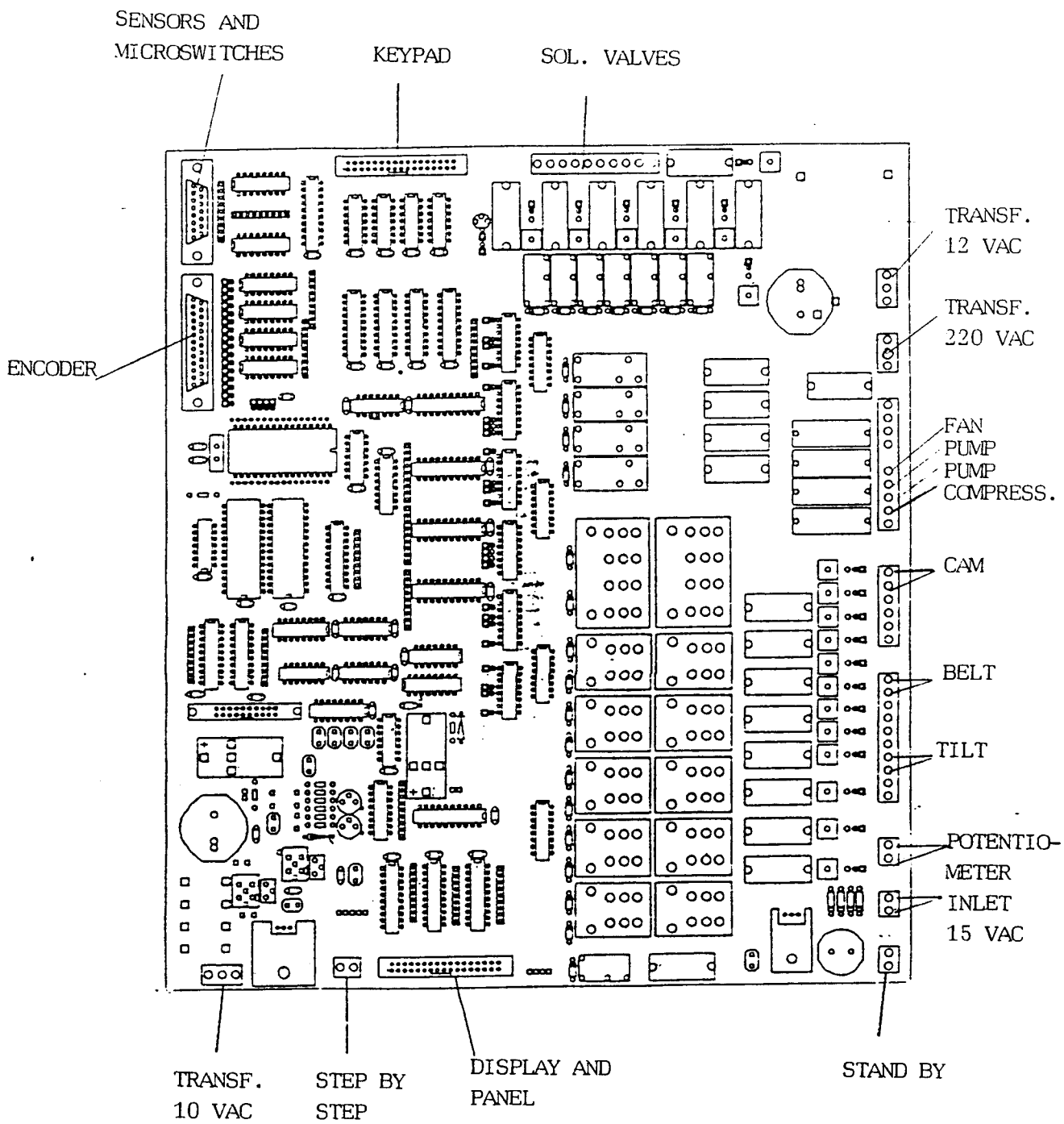


PCB 206

FIG 2

fig 3





CPU BOARD PCB 301

CONNECTORS

fig 4

TEST POINTS PCB 301

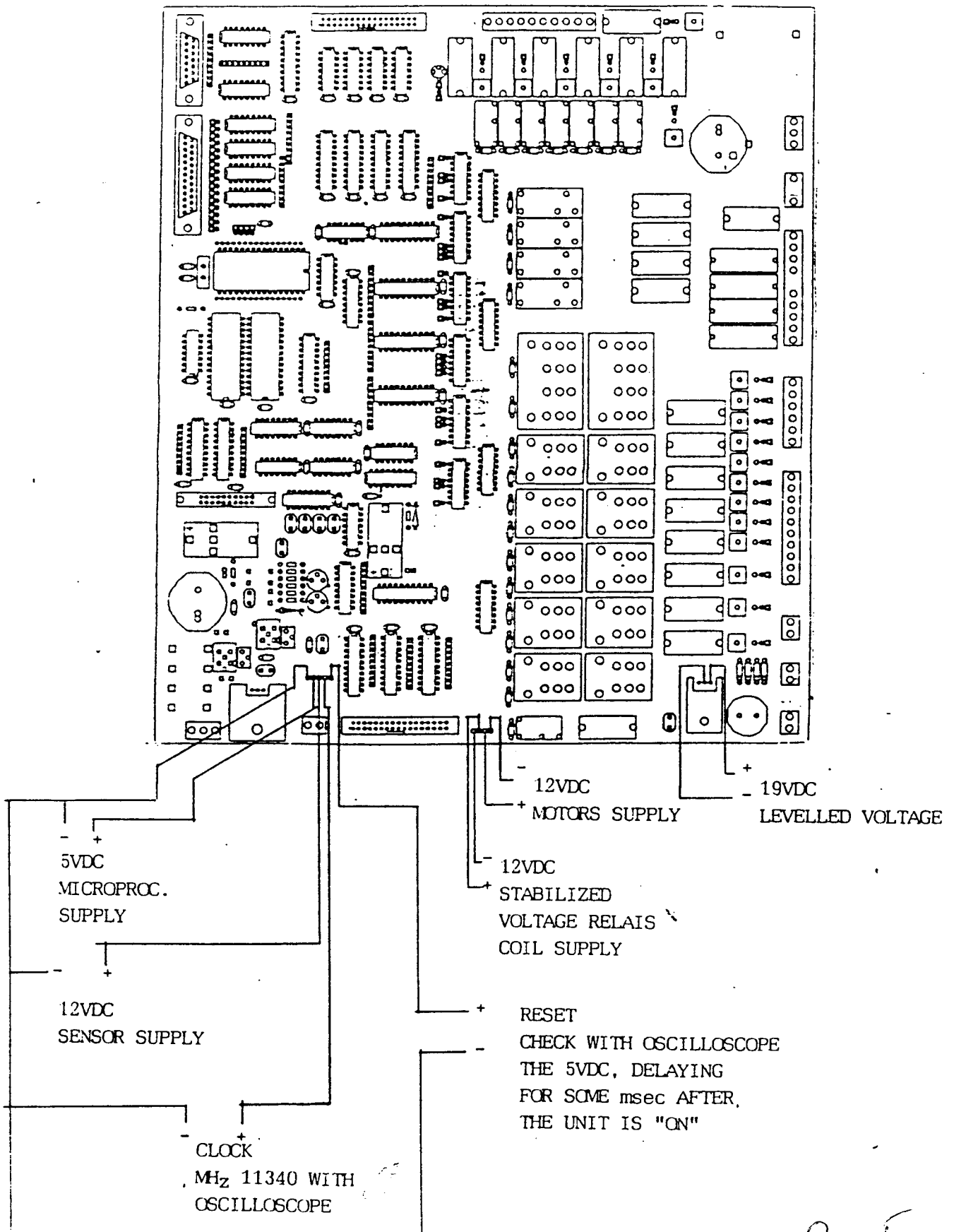


fig 5