UC-300

Precision Health Scale

MAINTENANCE MANUAL

maintenance-UC-300-v.1.a

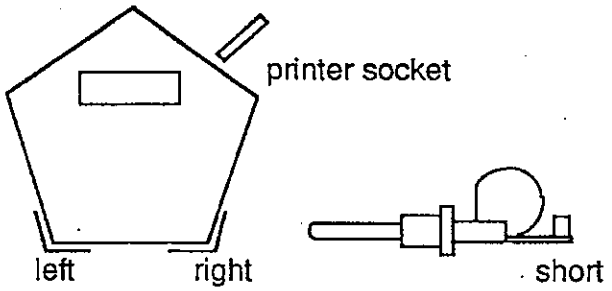
MODELS: UC-300EX-C
UC-300US-C

A&D Company, Limited

Adjustment of UC-300

Adjustment

SW1 : right side switch
SW2 : left side switch



Step 1 Insert a shorted connector into the printer socket. Both terminals shorted.

Step 2 Push SW2, Display segment check (this places the UC-300 into the check mode).

Step 3 Push SW1, Decreasing display check.

Step 4 Push SW1. then "0" appears.

Step 5 Push SW2. This step initializes the UC-300 and all data is cleared.

Step 6 Push SW1. Then "1" appears.

Step 7 Select the product type using SW2. Set the type using SW1.

Table is as follows :

"C - 0"	kg, "."
"C - 1"	kg, ","
"C - 2"	lb, "."
"C - 3"	lb, ","

Step 8 Push SW2 to clear users memory and mode.

Step 9 Push SW1. Then "3" appears.

Step 10 "3" is for temperature coefficient setting of the temperature sensor.

It is usually not necessary to readjust this value.

Manufacturers setting is 6000. Setting process is as follows :

SW2 used to select figure.

SW1 used to increase the number at the selected figure.

SW1 used to place the data in memory at the finish.

Step 11 Push SW1. Then "4" appears.

Step 12 This is for temperature coefficient setting of the Load cell.

It is usually not necessary to readjust this value.

Manufacturers setting is 536. Setting process is as follows :

SW2 used to select figure.

SW1 used to increase number at selected figure.

SW1 used to place the data in memory at the finish.

Step 14 Push SW1. Then "5" appears.

Step 15 Measure the surface temperature of the Load cell.

Step 16 Push SW2.

Set this surface temperature using SW2 and SW1, as follows :

1 Select the first segment using SW2.

2 Push SW1 to change this segments number.

3 Change the blinking segment using SW2.

4 Push SW1 to change this segments number.

5 Push SW2. Then there is no blinking segment.

6 Push SW1. Then "6" appears.

Caution DO NOT PUSH SW2 WITH "6" DISPLAYED.

Step 17 Push SW1. Then "7" appears.

Step 18 Check the displayed numbers after the "OK" mark appears.

Step 19 Push SW2. Then "8" appears.

Step 20 Set the gravity value for the location where the UC-300 will be used.

Set up as follows :

1 Select the first segment using SW2.

2 Push SW1 to change this segments number.

3 Change the blinking segment using SW2.

4 Push SW1 to change this segments number.

5 Push SW2. Then there is no blinking segment.

6 Push SW1. Then "9" appears.

Step 21 Push SW2. Then "CL 0" appears.

Step 22 With nothing on the weighing pan, push SW2. Then "10" appears.

Step 23 Select the FULL SCALE weight using SW1.

"10" 136kg

"11" 300lb

"12" 100kg

"13" 200lb

Step 24 Place the selected weight on the weighing pan.

Step 25 Select the value using SW2. The weight type appears as follows :

"CL 1" 136kg

"CL 2" 300lb

"CL 3" 100kg

"CL 4" 200lb

Step 26 Check that the "OK" mark appears and push SW2.

Step 27 Remove all weight and turn the power off.

List of Check mode

"0" Initializing

SW1 : Selects the next mode.

SW2 : Initializing EEPROM

product type, unit, point set to type "C - 0"

users memory (memory,target) = 0

temperature coefficient of temperature sensor = 6000

temperature coefficient of Load cell = 536

room temperature = 0

gravity value = 9.798

"1" Product type setting

SW1 : Selects the next mode.

SW2 : "C - 0" kg, "." Initialized setting

SW2 : "C - 1" kg, ","

SW2 : "C - 2" lb, "."

SW2 : "C - 3" lb, ","

SW1 : setting

"2" Users memory clear (memory, target)

SW1 : Selects the next mode.

SW2 : Clear

"3" Temperature coefficient setting of temperature sensor

Manufacture setting = 6000

SW1 : Selects the next mode.

SW2 : Setting as follows :

SW2 use to select figure.

SW1 use to increase number at selected figure.

SW1 set key at the finish.(with no blinking segments)

"4" Temperature coefficient setting of Load cell

Manufacturers setting = 536

SW1 : Selects the next mode.

SW2 : setting as follows :

SW2 use to select figure.

SW1 use to increase number at selected figure.

SW1 set key at the finish.(with no blinking segments)

"5" Room temperature setting

Manufacturers setting = 0

SW1 : Selects the next mode.

SW2 : Setting as follows :

SW2 use to select figure.

SW1 use to increase number at selected figure.

SW1 set key at the finish.(with no blinking segments)

"6" Offset setting of temperature sensor of the A/D section.

Manufacturers setting = 25671

SW1 : Selects the next mode.

SW2 : Setting as follows :

SW2 use to select figure.

SW1 use to increase number at selected figure.

SW1 set key at the finish.(with no blinking segments)

"7" Temperature sensor A/D setting

Condition : To set room temperature and to connect load cell befor this setting

SW1 : Selects the next mode.

SW2 : Setting as follows :

SW2 use to select figure.

SW1 use to increase number at selected figure.

SW1 set key at the finish.(with no blinking segments)

"8" Gravity value setting

Manufacturers setting = 9.798

SW1 : Selects the next mode.

SW2 : Setting as follows :

SW2 use to select figure.

SW1 use to increase number at selected figure.

SW1 set key at the finish.(with no blinking segments)

"9" Calibration of Zero

SW1 : Selects the next mode.

SW2 : To display "CL 0" and setting as follows :

SW2 set key

SW1 selects the next mode.

"10" Calibration of span (136kg)

SW1 : Selects the next mode.

SW2 : To display "CL 1" and setting as follows :

SW2 set key

SW1 selects the next mode.

"11" Calibration of span (300lb)

SW1 : Selects the next mode.

SW2 : To display "CL 2" and setting as follows :

SW2 set key

SW1 selects the next mode.

"12" Calibration of span (100kg)

SW1 : Selects the next mode.

SW2 : To display "CL 3" and setting as follows :

SW2 set key

SW1 selects the next mode.

"13" Calibration of span (200lb)

SW1 : Selects the next mode.

SW2 : To display "CL 4" and setting as follows :

SW2 set key

SW1 selects the next mode.

"14" Direct measurement display

SW1 : Selects the next mode.

SW2 : To display Direct measurement display

SW1 selects the next mode.

"15" Direct internal measurement display

SW1 : Selects the next mode.

SW2 : To display Direct measurement display

SW1 selects the next mode.

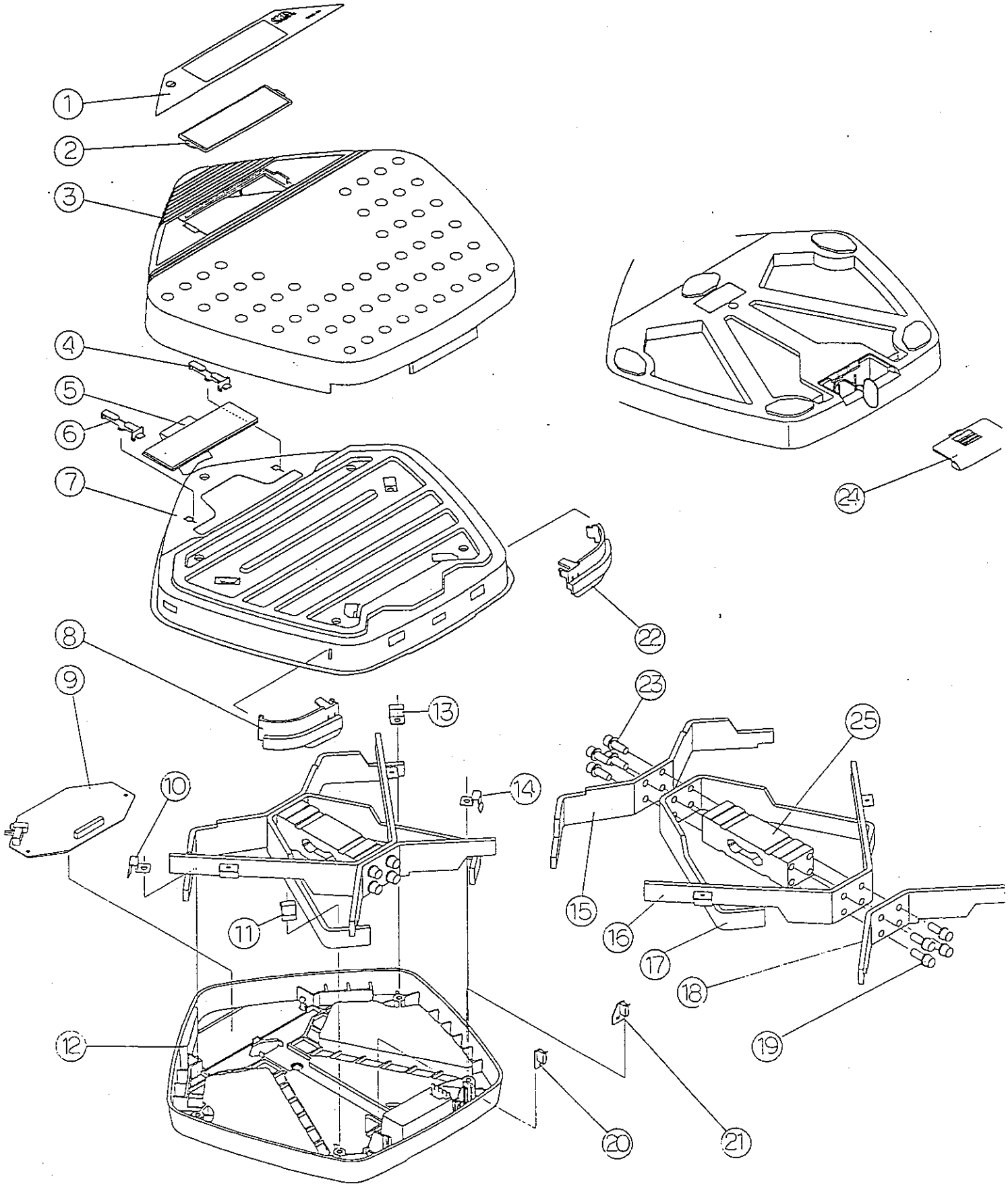
UC-300

EXPLODED VIEW

NO.	PARTS NAME	DESCRIPTION
1	U5-B30426-1	NAME PLATE EX-C
1	U5-B30426-2	NAME PLATE US-C
2	U5-B49462	DISPLAY FILTER
3	U5-A10157-1B	UPPER CASE
4	U5-B49107	LCD HOLDER
5	VL-E7272	LCD DISPLAY
6	U5-B49107	LCD HOLDER
7	U5-A10158A	MIDDLE CASE
8	U5-A38203-2A	SWITCH LEFT
9	PA-2609S1	MAIN BOARD
10	U5-B49463	LOCK PLATE
11	U5-B49463	LOCK PLATE
12	U5-A10194	LOWER CASE
13	U5-B49463	LOCK PLATES
14	U5-B49463	LOCK PLATES
15	U5-A38205	LOARD FRAME (B)
16	U5-A38206A	BASE FRAME (A)
17	U5-A38204A	LOARD FRAME (A)
18	U5-A38207A	BASE FRAME (B)
19		ALEN HEAD SCREW M6×20
20	SP-SMA-100N-A	SWITCH
21	SP-SMA-100N-A	SWITCH
22	U5-A38203-1A	SWITCH RIGHT
23		ALEN HEAD SCREW M6×20
24	U5-A39399	BATTERY COVER
25	U5-B45186	LOAD CELL

LCD VL-E7272

ribbon cable KH-21P150L060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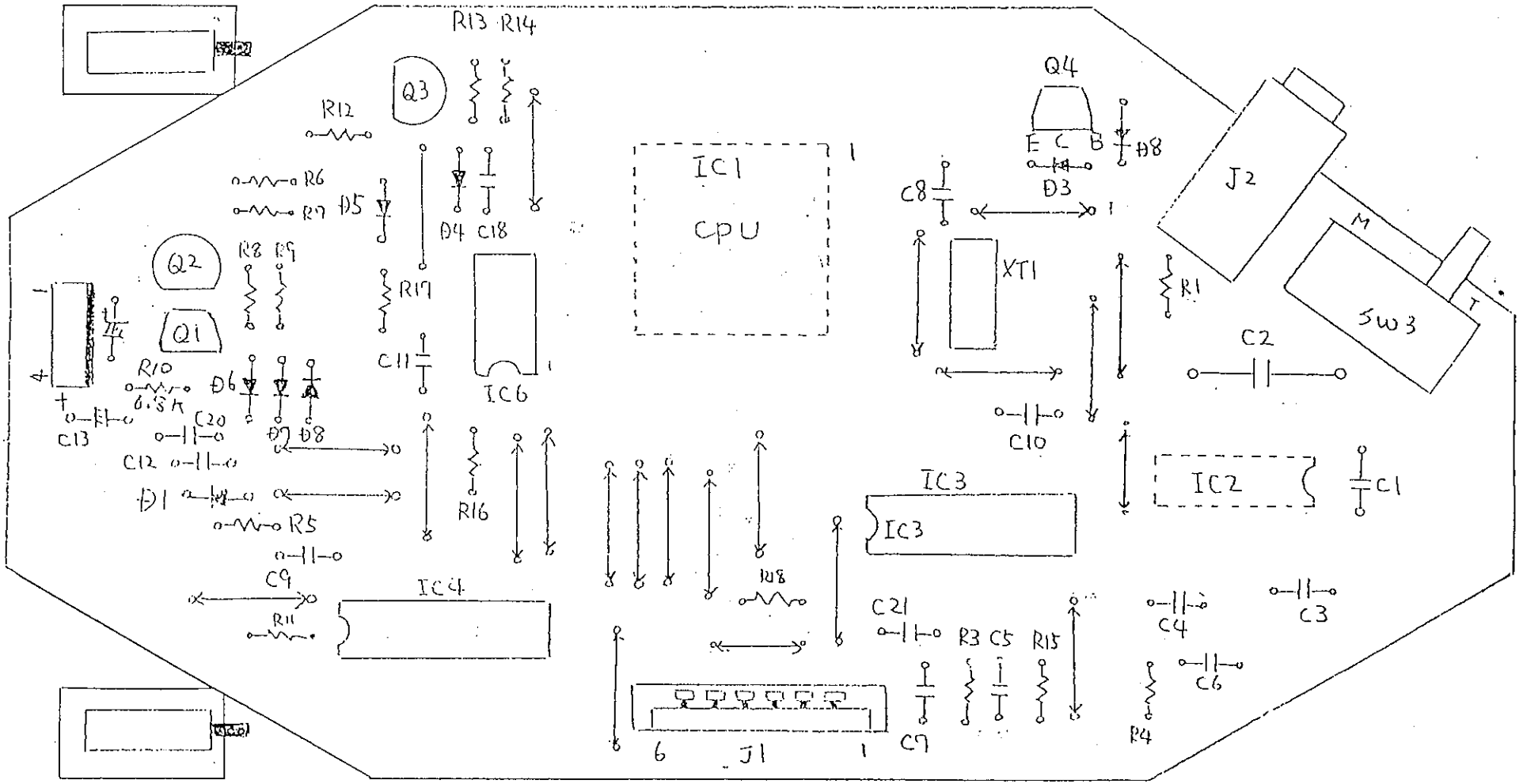
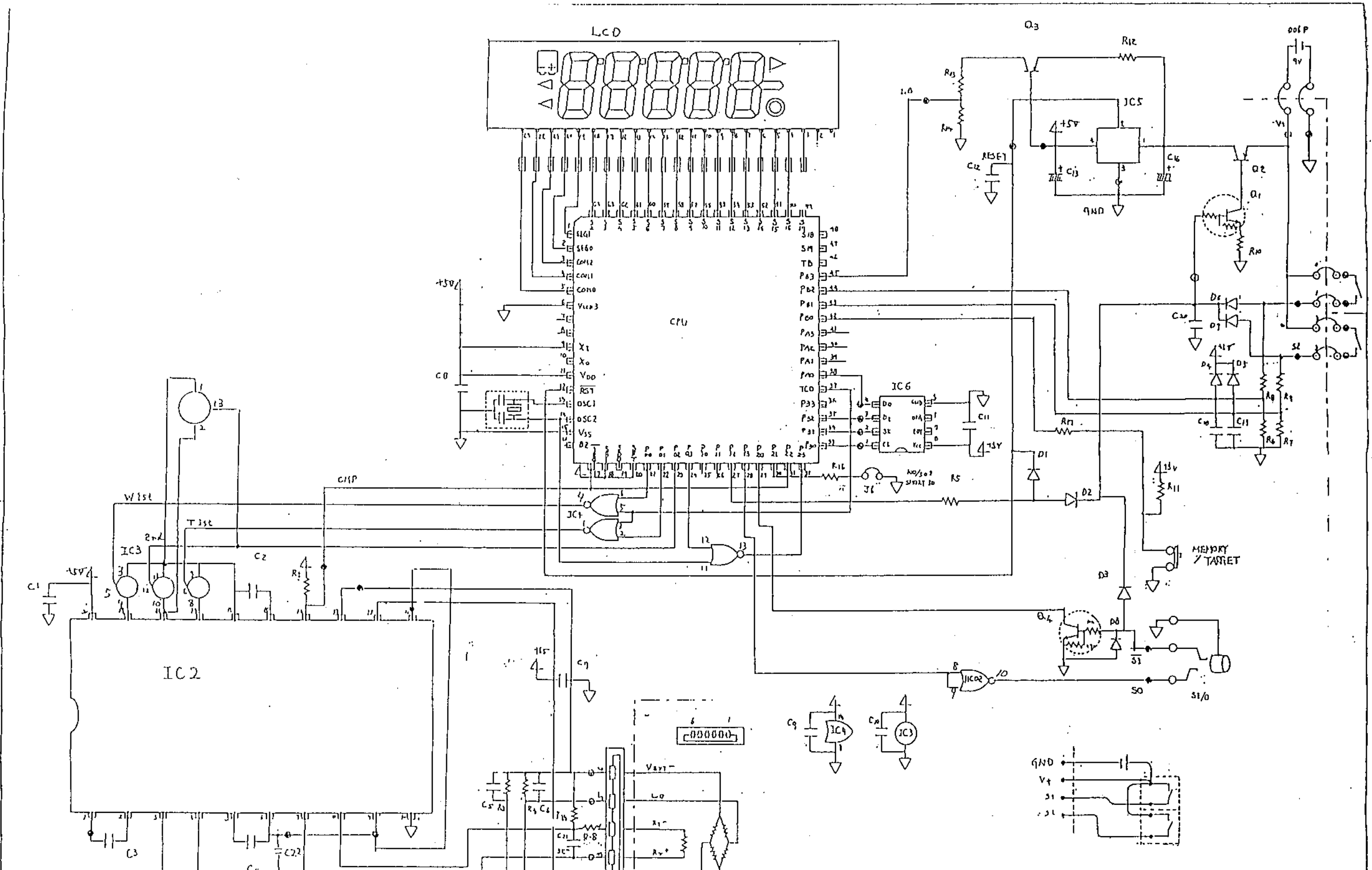
SP-SMA-100N-A



SP-SMA-100N-A

Product	UC300
name	MAIN BOARD
Stock No.	PE-26090



Product	UC 300
name	MAIN BOARD
Stock No.	PE-2609A