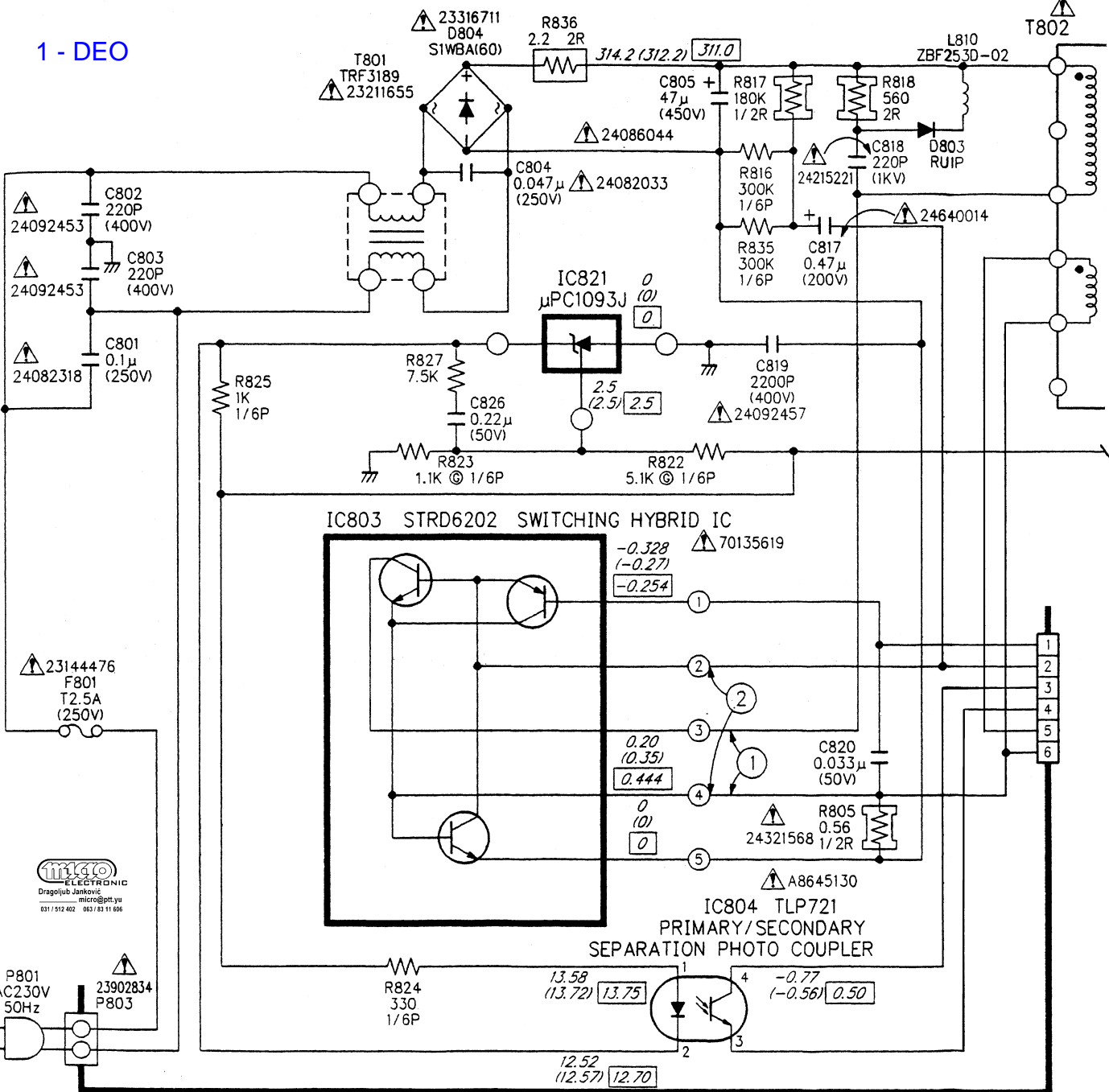
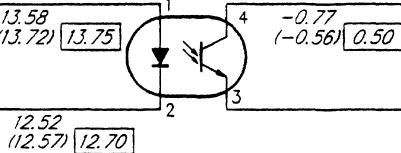
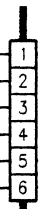
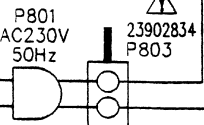


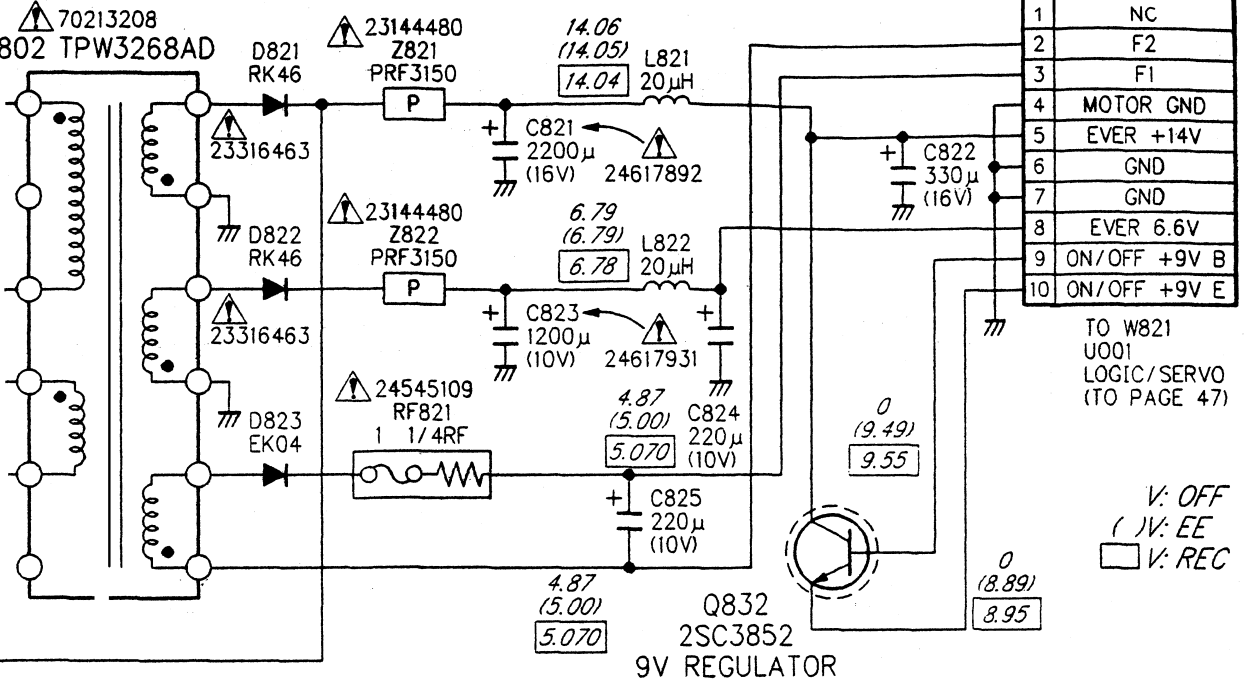
# 1 - DEO



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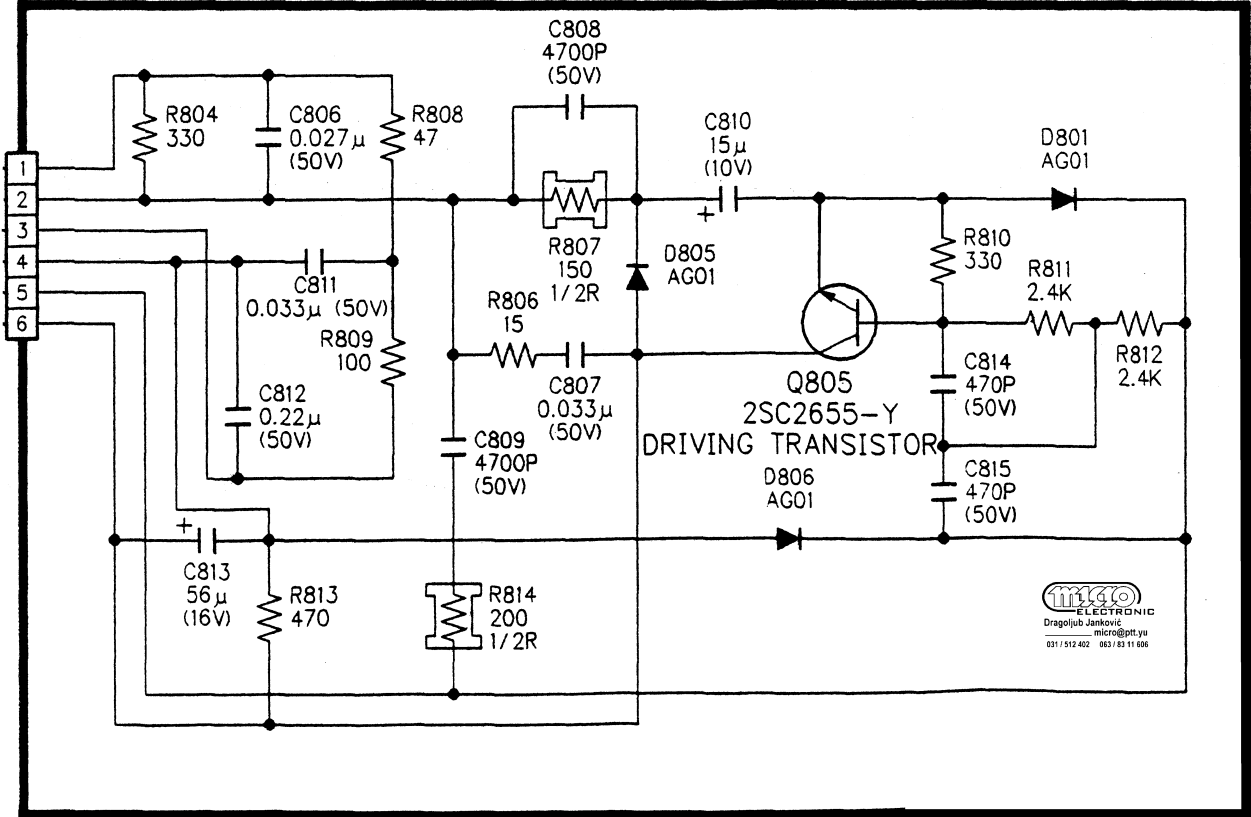


70213208  
T802 TPW3268AD

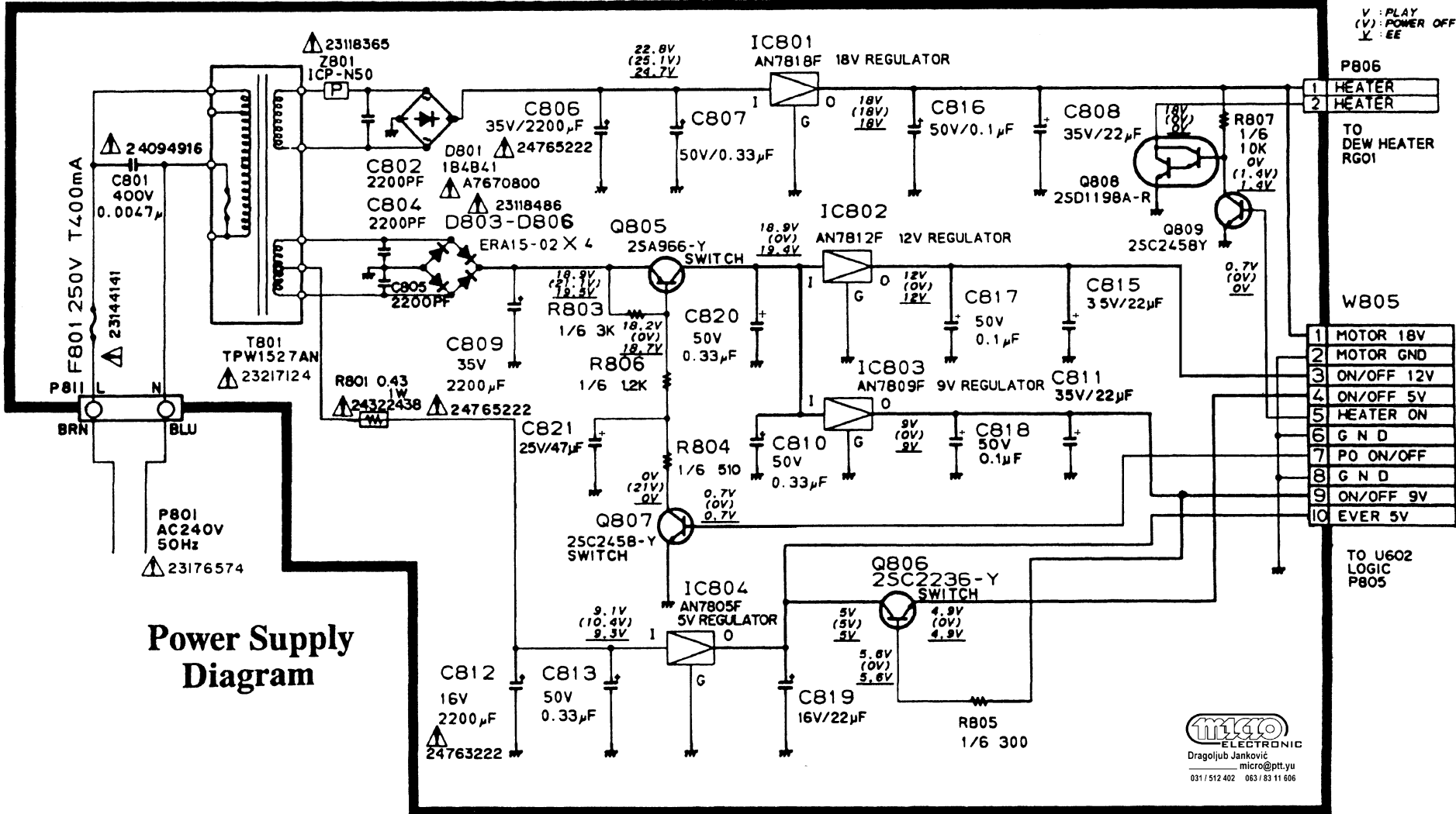


# U803 POWER CONTROL

2 - DEO



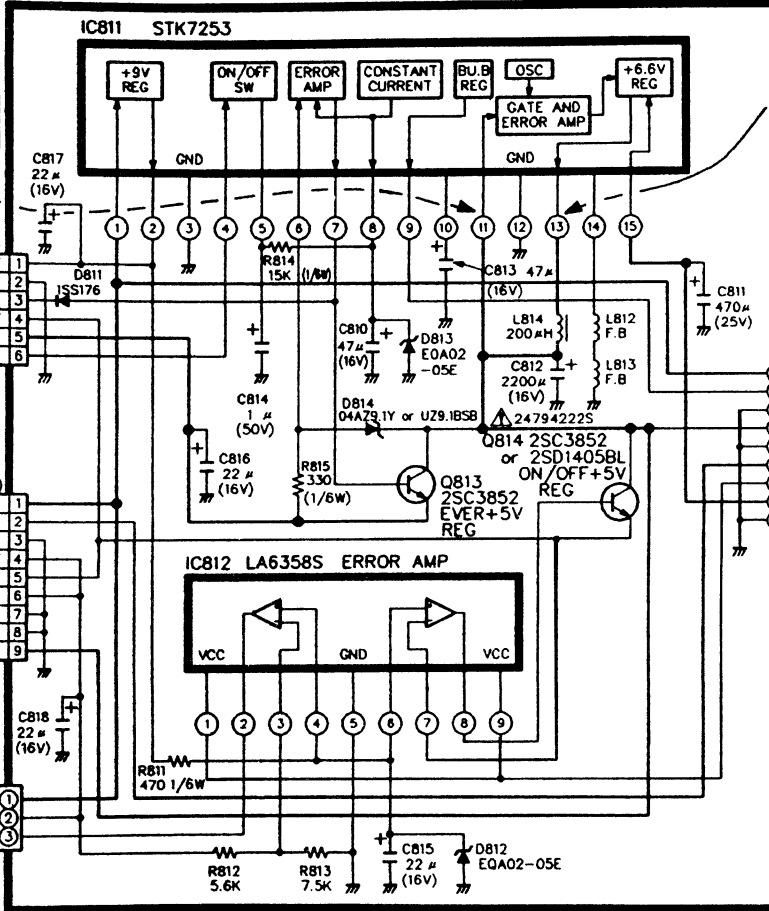
# UB01 POWER CIRCUIT



## Power Supply Diagram

# Power Supply Diagram

## U803 POWER 2

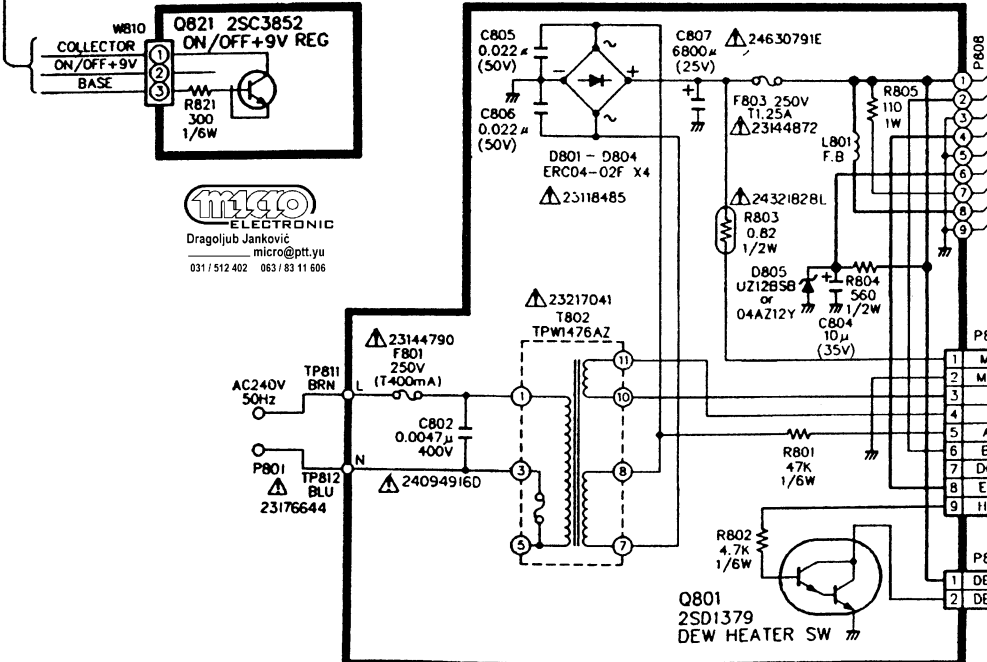


V: 5V/div.  
H: 5μs/div.

## Voltage Chart

	S-BY	E.E	PLAY	REC	
IC811	1	19.3	17.9	17.8	16.8
	2	0	8.9	8.9	8.9
	3	0	0	0	0
	4	3.5	0	0	0
	5	0	5.8	5.8	5.8
	6	5.0	5.1	5.1	5.1
	7	5.6	5.7	5.7	5.7
	8	5.0	5.1	5.1	5.1
	9	5.6	5.7	5.7	5.7
	10	7.1	7.1	7.1	7.1
	11	6.7	6.6	6.6	6.6
	12	0	0	0	0
	13	6.7	6.6	6.6	6.6
	14	0	0	0	0
	15	19.3	17.9	17.8	16.8
IC812	1	19.3	17.9	17.8	16.8
	2	0	9.5	9.5	9.5
	3	0	5.0	5.0	5.0
	4	0	5.0	5.0	5.0
	5	0	0	0	0
	6	0	5.0	5.0	5.0
	7	0	5.0	5.0	5.0
	8	0	5.6	5.6	5.6
	9	19.3	17.9	17.8	16.8
Q801	E	0	0	0	0
	C	0.7	17.9	17.8	16.8
	B	1.4	0	0	0
Q813	E	5.0	5.1	5.1	5.1
	C	6.7	6.6	6.6	6.6
Q814	B	5.6	5.7	5.7	5.7
	E	0	5.0	5.0	5.0
Q814	C	6.7	6.6	6.6	6.6
	B	0	5.6	5.6	5.6
Q821	E	0	8.9	8.9	8.9
	C	19.3	17.9	17.8	16.8
Q821	B	0	9.5	9.5	9.5

## U804 POWER TR U802 POWER 1



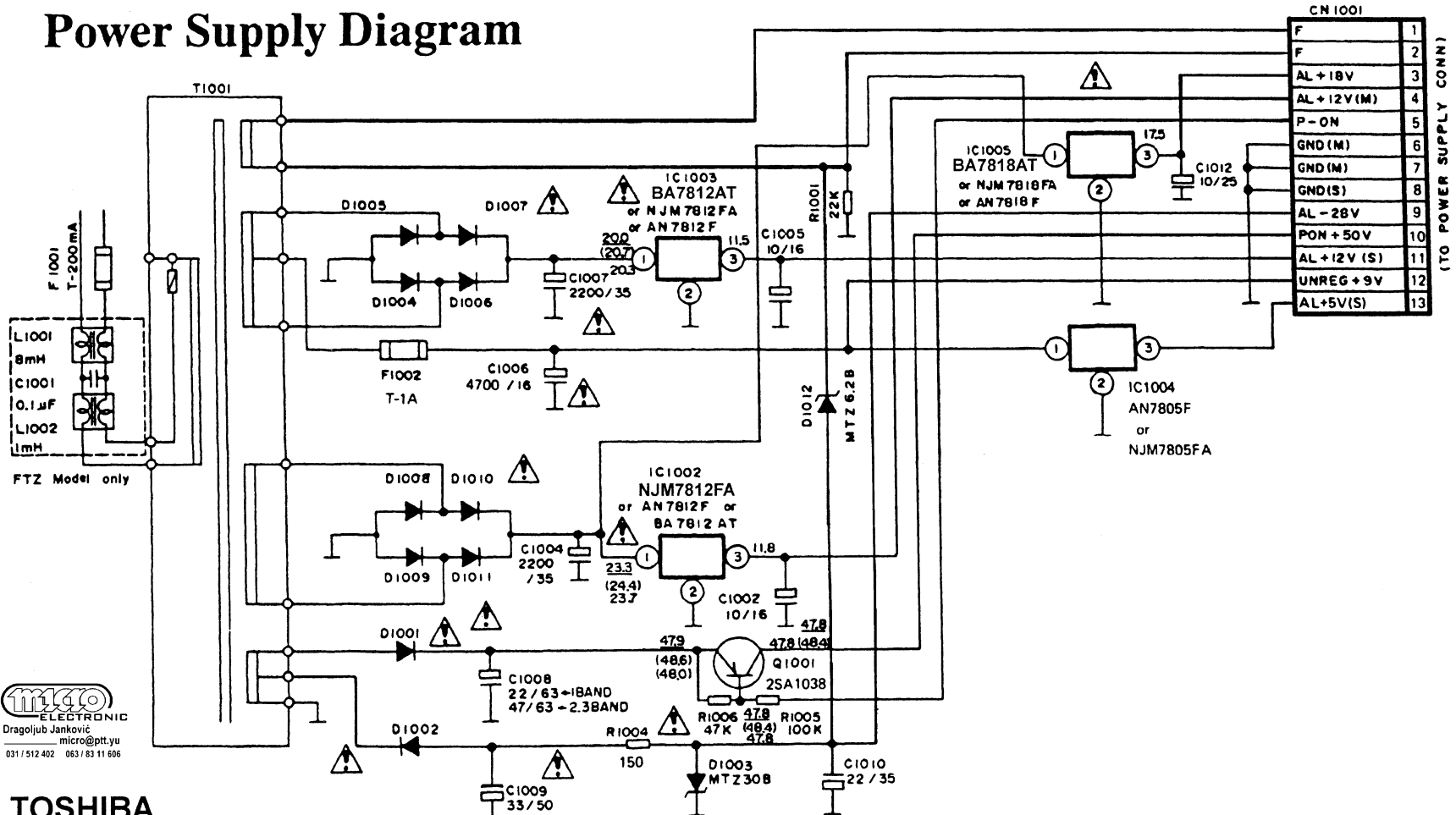
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P805(WHT)		TO W602
1	MOTOR +B	WHT
2	MOTOR GND	ORG
3	F2	ORG
4	F1	ORG
5	AC CLOCK	ORG
6	B.UP 5.6V	ORG
7	DC/DC GND	ORG
8	EVER+5.6V	ORG
9	HEATER ON	ORG

P804(WHT)		TO RG01
1	DEW HEATER	YEL
2	DEW HEATER	YEL

# Power Supply Diagram



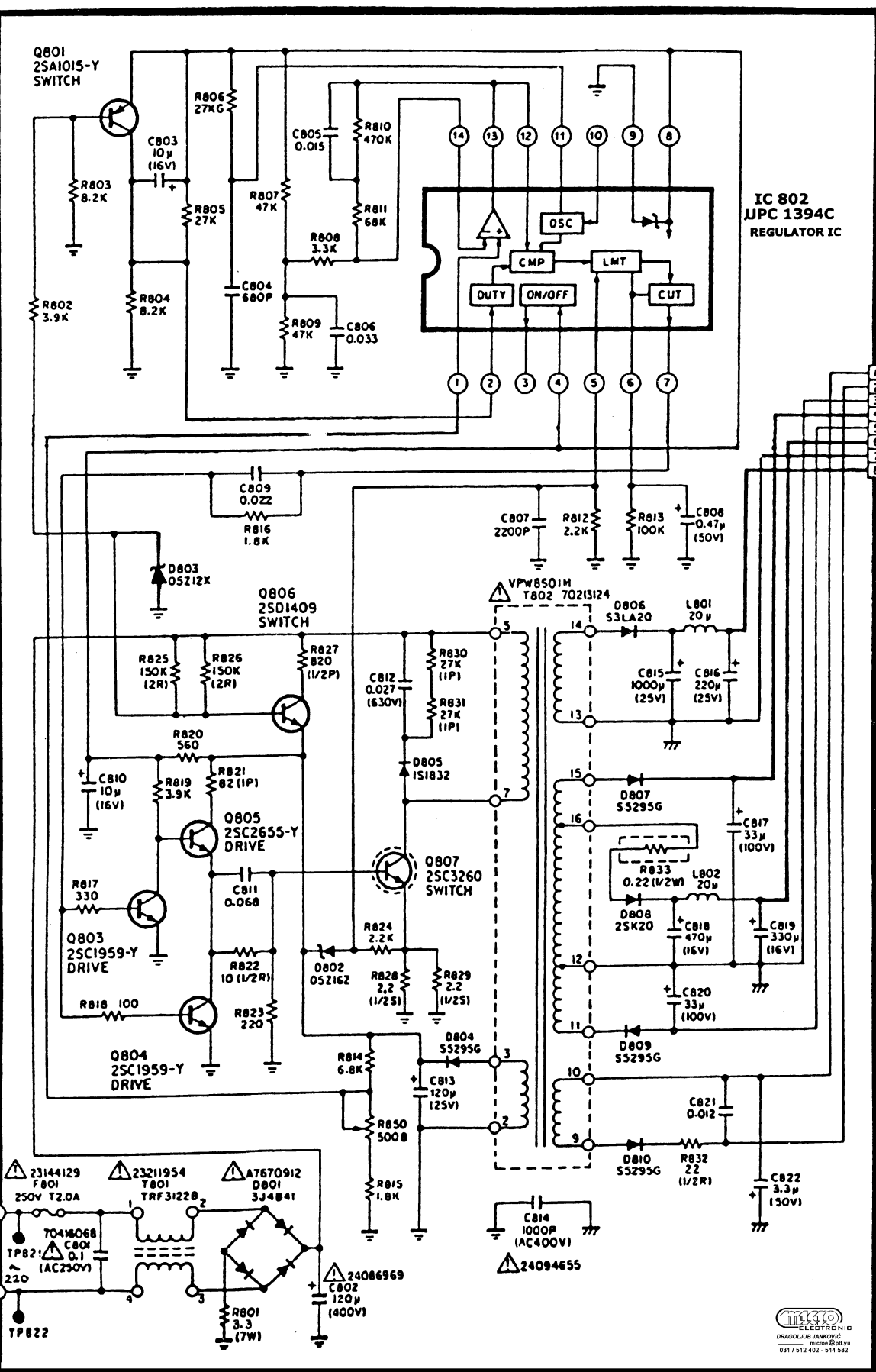
CN 1001	
F	1
F	2
AL + 18V	3
AL + 12V (M)	4
P-ON	5
GND (M)	6
GND (M)	7
GND (S)	8
AL - 28V	9
PON + 50V	10
AL + 12V (S)	11
UNREG + 9V	12
AL + 5V (S)	13

(TO POWER SUPPLY CONN)

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**TOSHIBA**  
**TVR 6151/DVR 6651**

D1001, D1002, D1004 ~ D1011, type IN4003 F2 or ISR35-200A or ISR139-200 is used



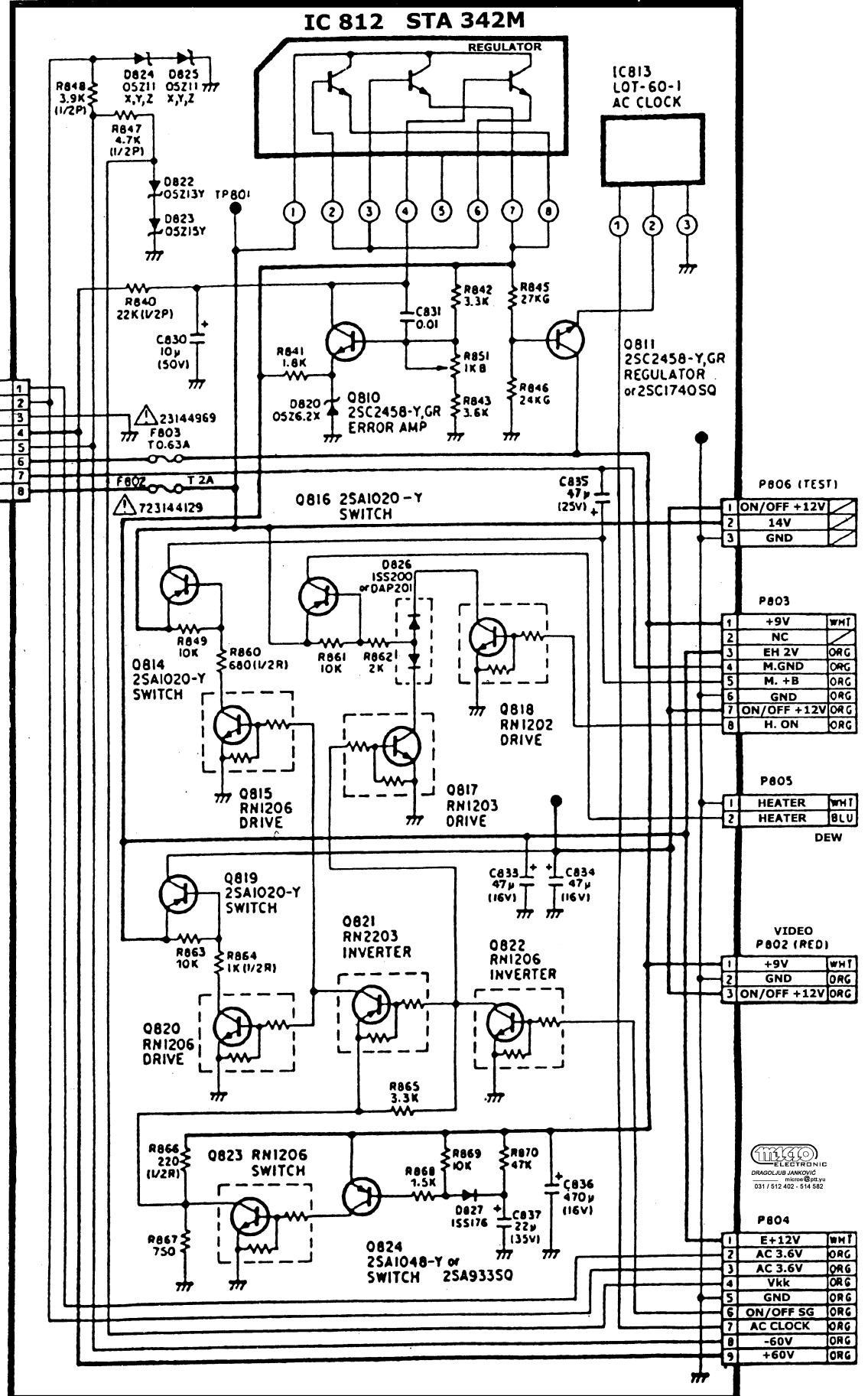
**IC 802**  
JPC 1394C  
REGULATOR IC

**W 801**

1	AC 3.6V
2	AC 3.6V
3	GND
4	+60V
5	-60V
6	+9V
7	M. GND
8	14V

**P807**

1	AC 3.6V
2	AC 3.6V
3	GND
4	+60V
5	-60V
6	+9V
7	M. GND
8	14V



**IC 812** STA 342M

**IC813**  
LOT-60-1  
AC CLOCK

**P806 (TEST)**

1	ON/OFF +12V
2	14V
3	GND

**P803**

1	+9V	WHT
2	NC	
3	EH 2V	ORG
4	M. GND	ORG
5	M. +B	ORG
6	GND	ORG
7	ON/OFF +12V	ORG
8	H. ON	ORG

**P805**

1	HEATER	WHT
2	HEATER	BLU

DEW

**VIDEO P802 (RED)**


1	+9V	WHT
2	GND	ORG
3	ON/OFF +12V	ORG

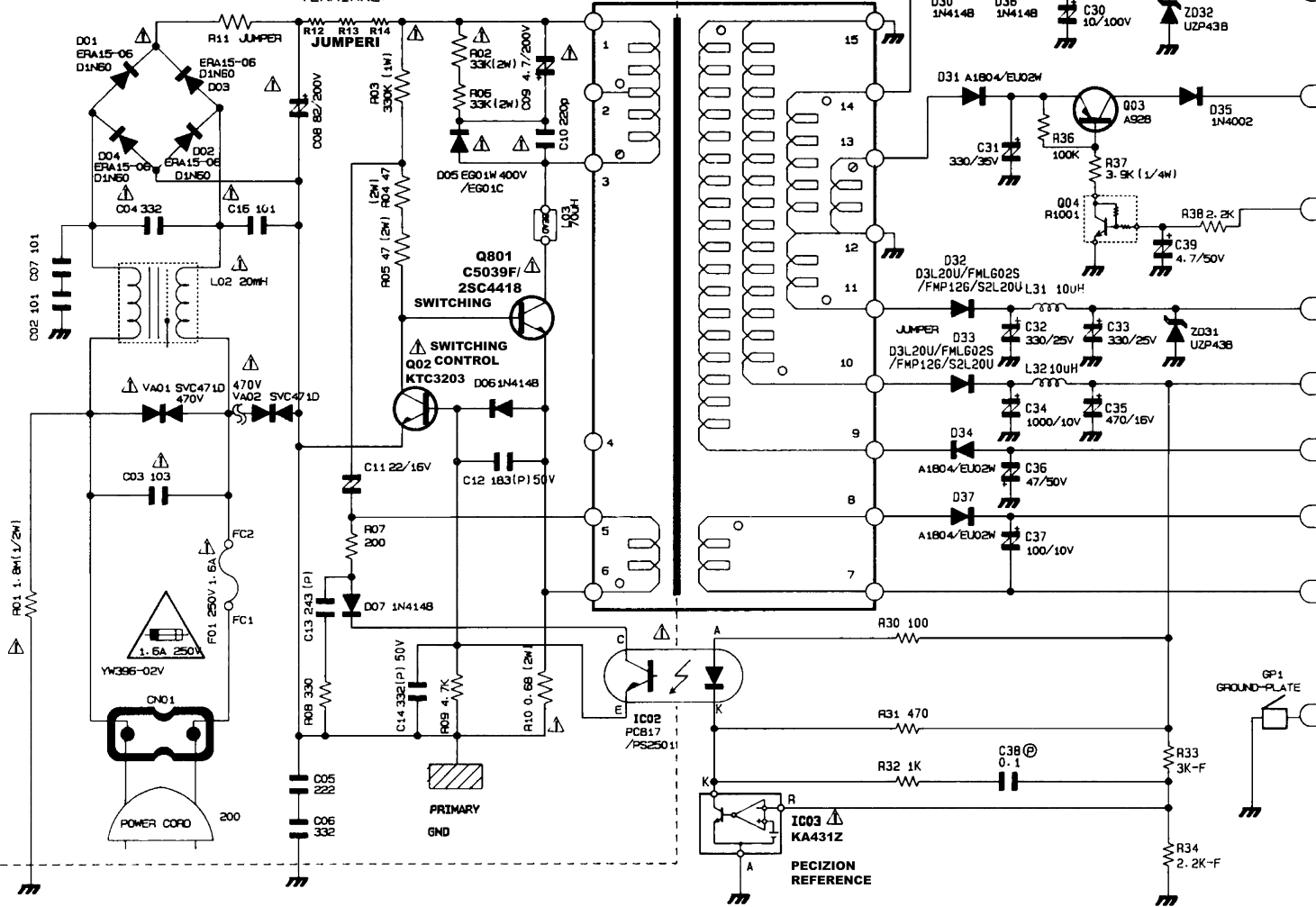
**P804**

1	E+12V	WHT
2	AC 3.6V	ORG
3	AC 3.6V	ORG
4	Vkk	ORG
5	GND	ORG
6	ON/OFF 5G	ORG
7	AC CLOCK	ORG
8	-60V	ORG
9	+60V	ORG

**HOT**

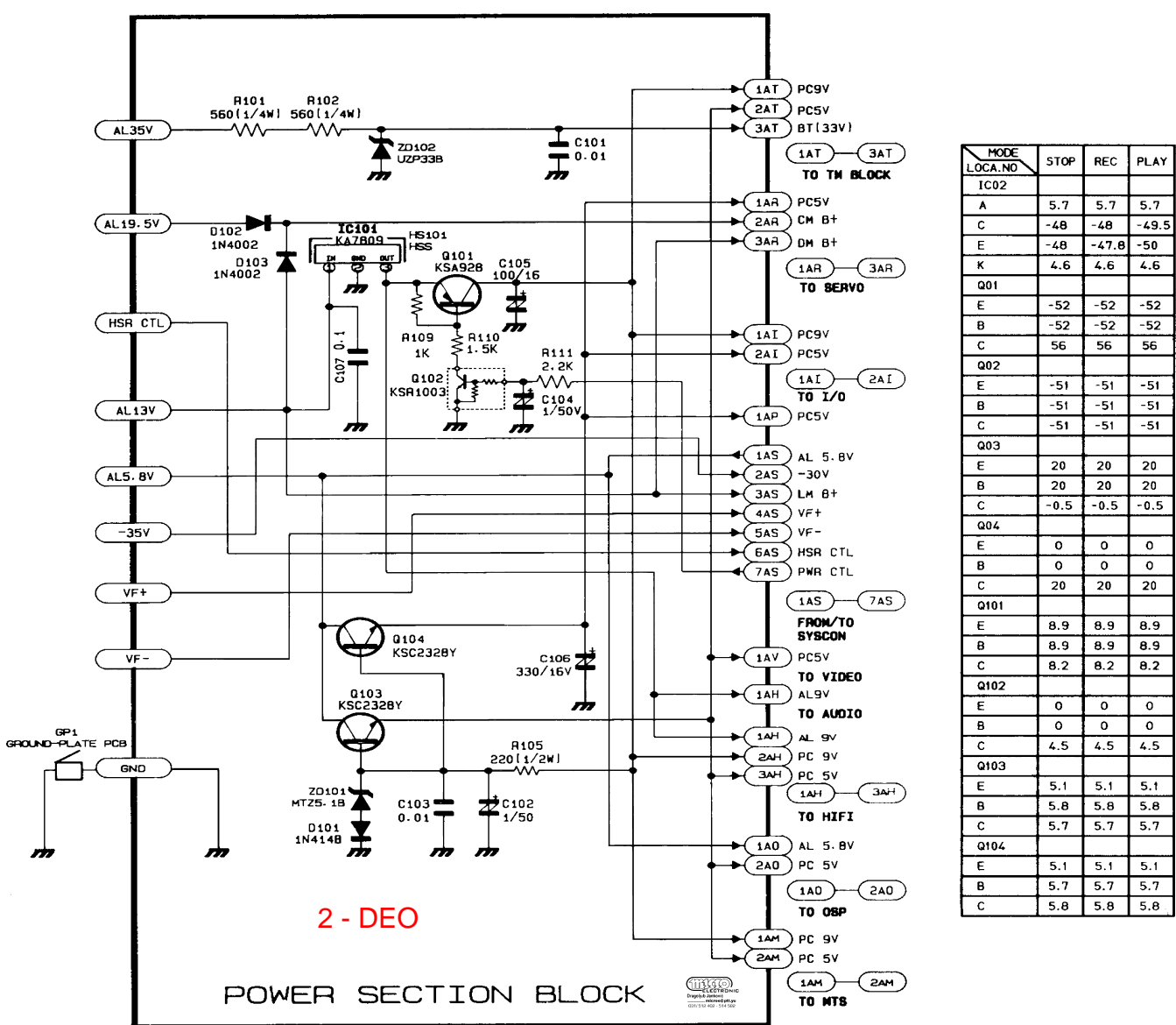
NOTE: WHEN YOU CHECK THE VOLTAGE OF THE PARTS IN HOT CIRCUIT, CONNECT **PRIMARY GND** TO THE GND TERMINAL.

**IMPORTANT SAFETY NOTICE**  
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



1 - DEO

SMPS BLOCK



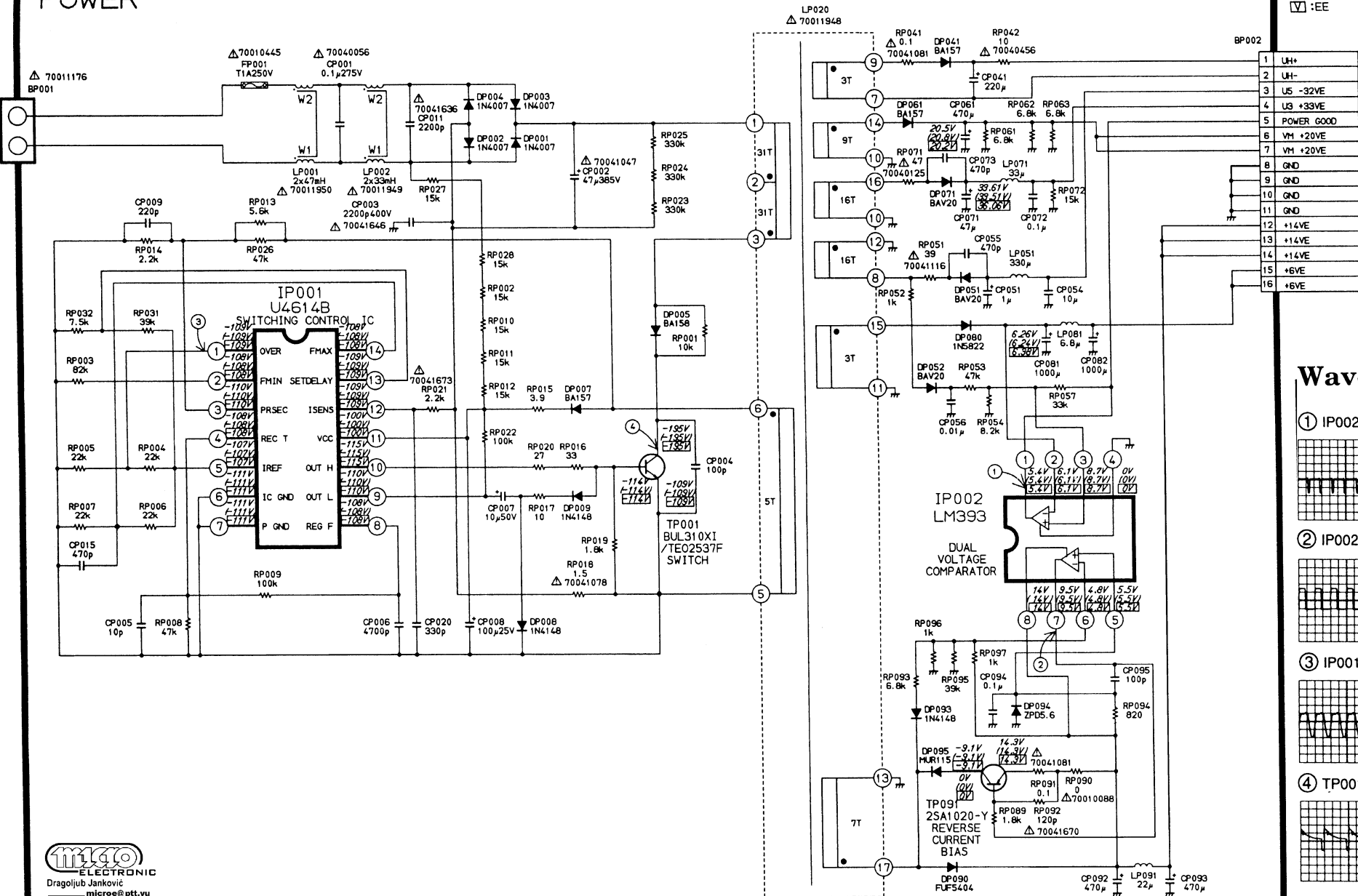
MODE LOCA.NO	STOP	REC	PLAY
IC02			
A	5.7	5.7	5.7
C	-4.8	-4.8	-49.5
E	-4.8	-4.7.8	-5.0
K	4.6	4.6	4.6
Q01			
E	-5.2	-5.2	-5.2
B	-5.2	-5.2	-5.2
C	5.6	5.6	5.6
Q02			
E	-5.1	-5.1	-5.1
B	-5.1	-5.1	-5.1
C	-5.1	-5.1	-5.1
Q03			
E	2.0	2.0	2.0
B	2.0	2.0	2.0
C	-0.5	-0.5	-0.5
Q04			
E	0	0	0
B	0	0	0
C	2.0	2.0	2.0
Q101			
E	8.9	8.9	8.9
B	8.9	8.9	8.9
C	8.2	8.2	8.2
Q102			
E	0	0	0
B	0	0	0
C	4.5	4.5	4.5
Q103			
E	5.1	5.1	5.1
B	5.8	5.8	5.8
C	5.7	5.7	5.7
Q104			
E	5.1	5.1	5.1
B	5.7	5.7	5.7
C	5.8	5.8	5.8





# POWER

V : REC  
 (V) : PLAY  
 (V) : EE



TO BW001  
 0005M  
 MAIN(PIF)

1	LH+
2	LH-
3	US -32VE
4	UG +33VE
5	POWER GOOD
6	VM +20VE
7	VM +20VE
8	GND
9	GND
10	GND
11	GND
12	+14VE
13	+14VE
14	+14VE
15	+6VE
16	+6VE

## Waveforms

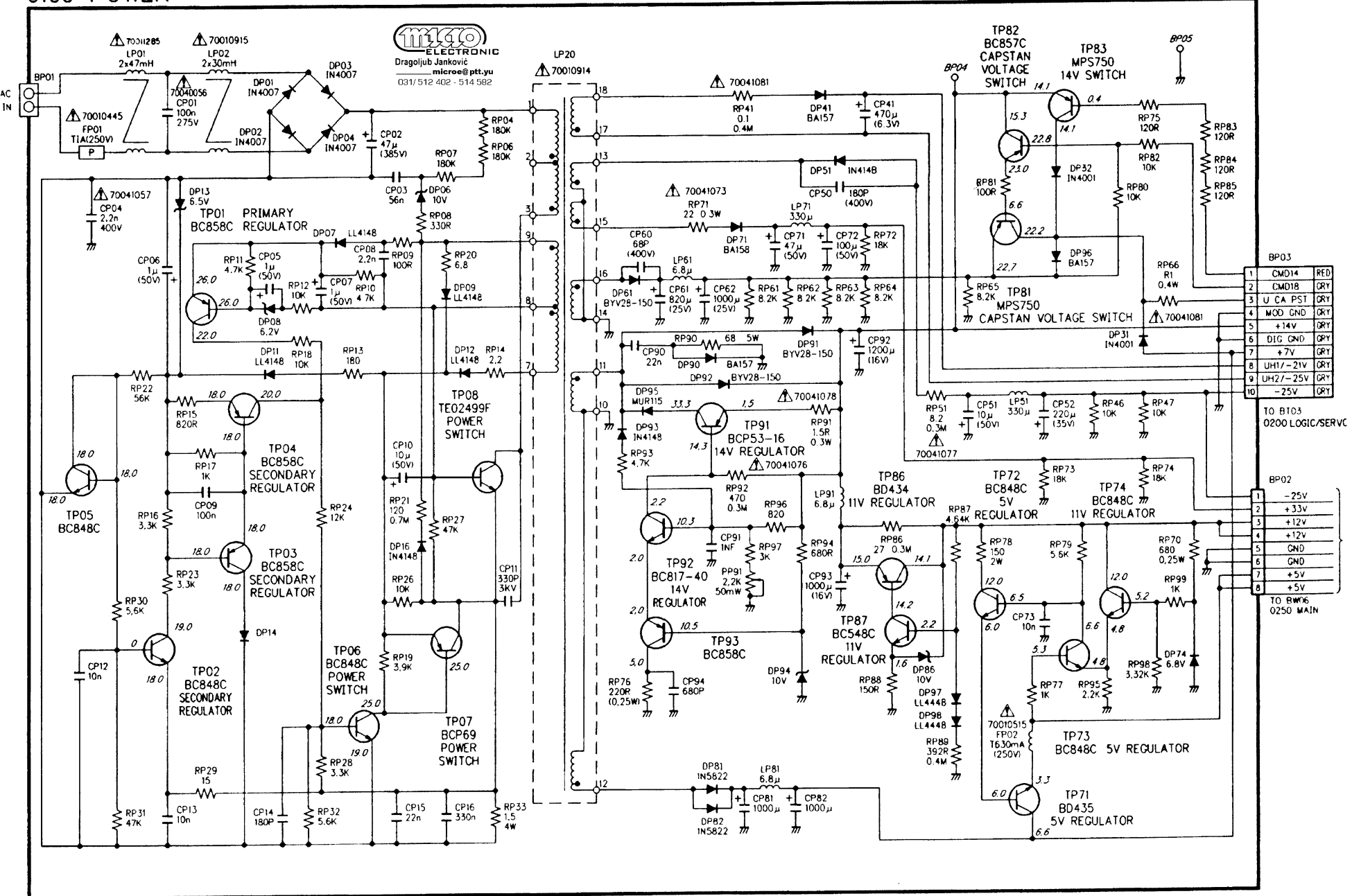
- ① IP002, Pin ①

V:5V/div  
H:20µs/div
- ② IP002, Pin ⑦

V:2V/div  
H:10ms/div
- ③ IP001, Pin ①

V:100V/div  
H:10ms/div
- ④ TP001, Collector

V:100V/div  
H:10µs/div



BP03

1	CMD14	RED
2	CMD18	GRY
3	U CA PST	GRY
4	MOD GND	GRY
5	+14V	GRY
6	DIG GND	GRY
7	+7V	GRY
8	UH1/-21V	GRY
9	UH2/-25V	GRY
10	-25V	GRY

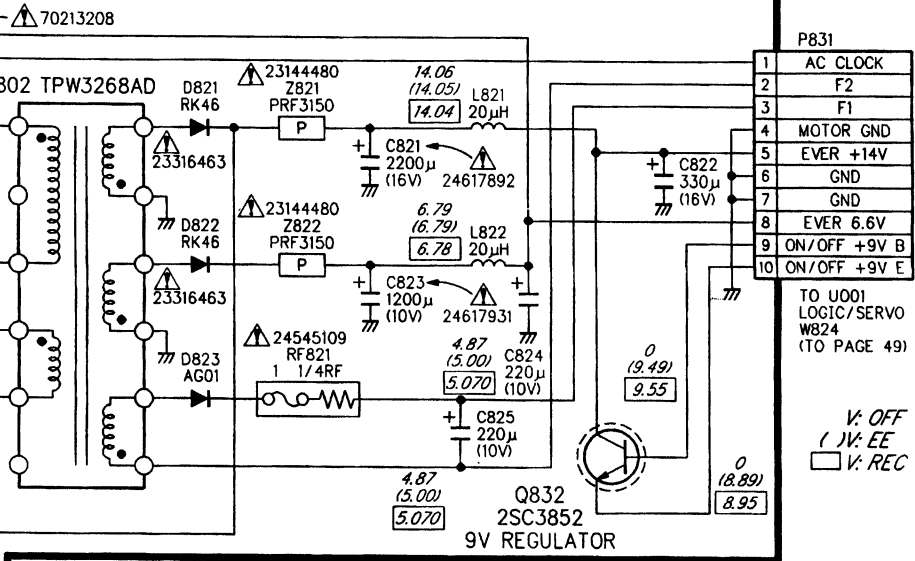
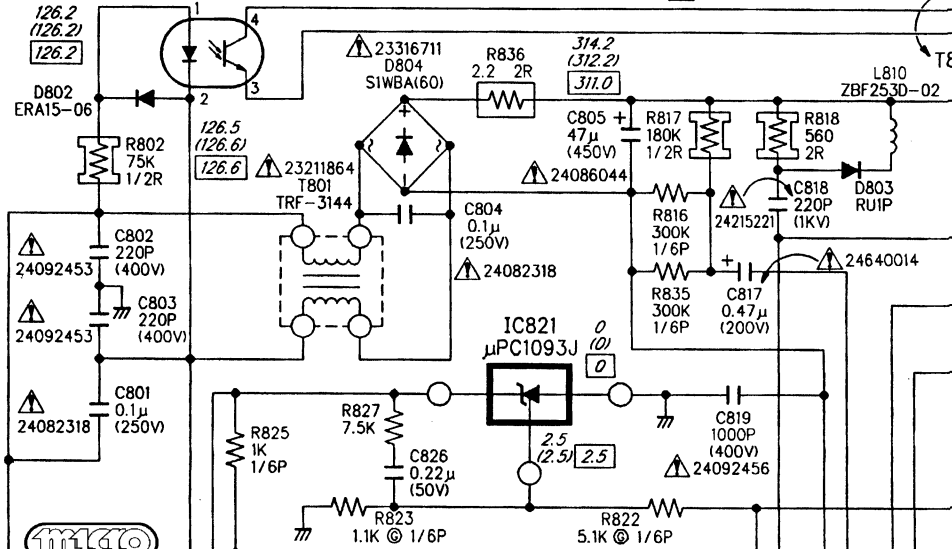
TO BIT03 0200 LOGIC/SERV

BP02

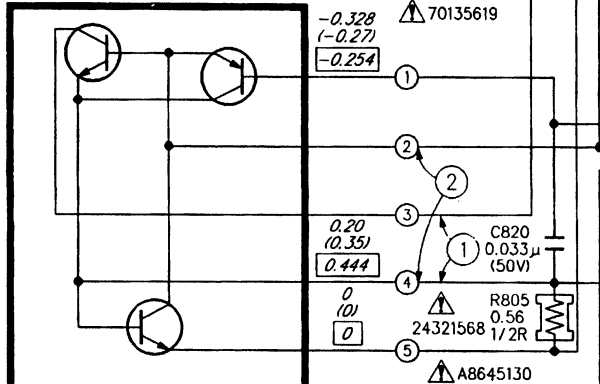
1	-25V
2	+33V
3	+12V
4	+12V
5	GND
6	GND
7	+5V
8	+5V

TO BW06 0250 MAIN

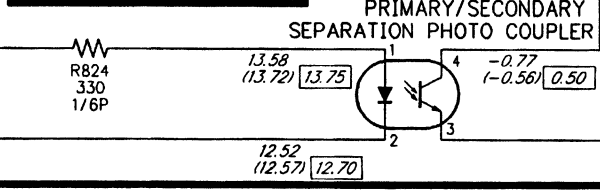
IC801 TLP721 AC CLOCK GENERATION PHOTO COUPLER  $\Delta$  A8645130



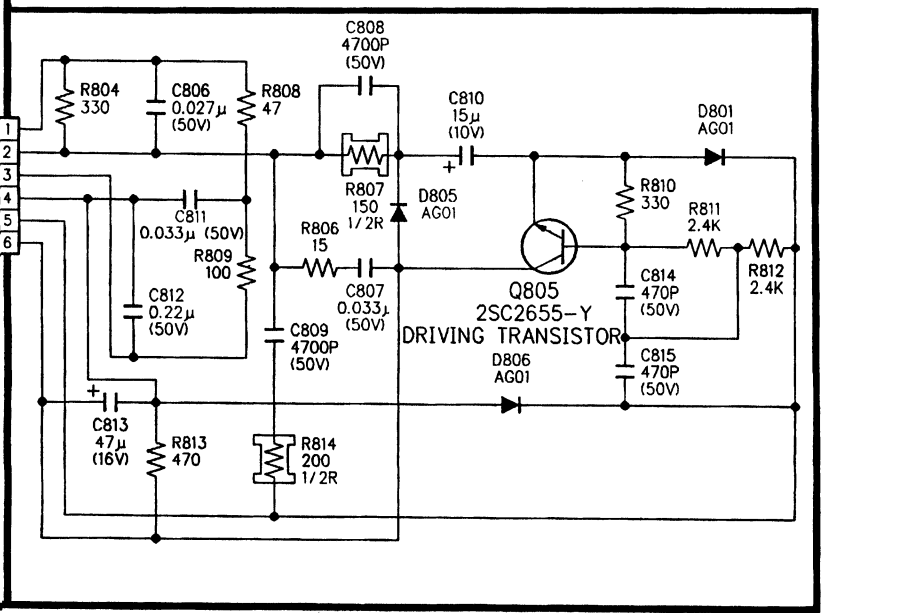
IC803 STRD6202 SWITCHING HYBRID IC  $\Delta$  70135619



IC804 TLP721 PRIMARY/SECONDARY SEPARATION PHOTO COUPLER  $\Delta$  A8645130



U803 POWER CONTROL



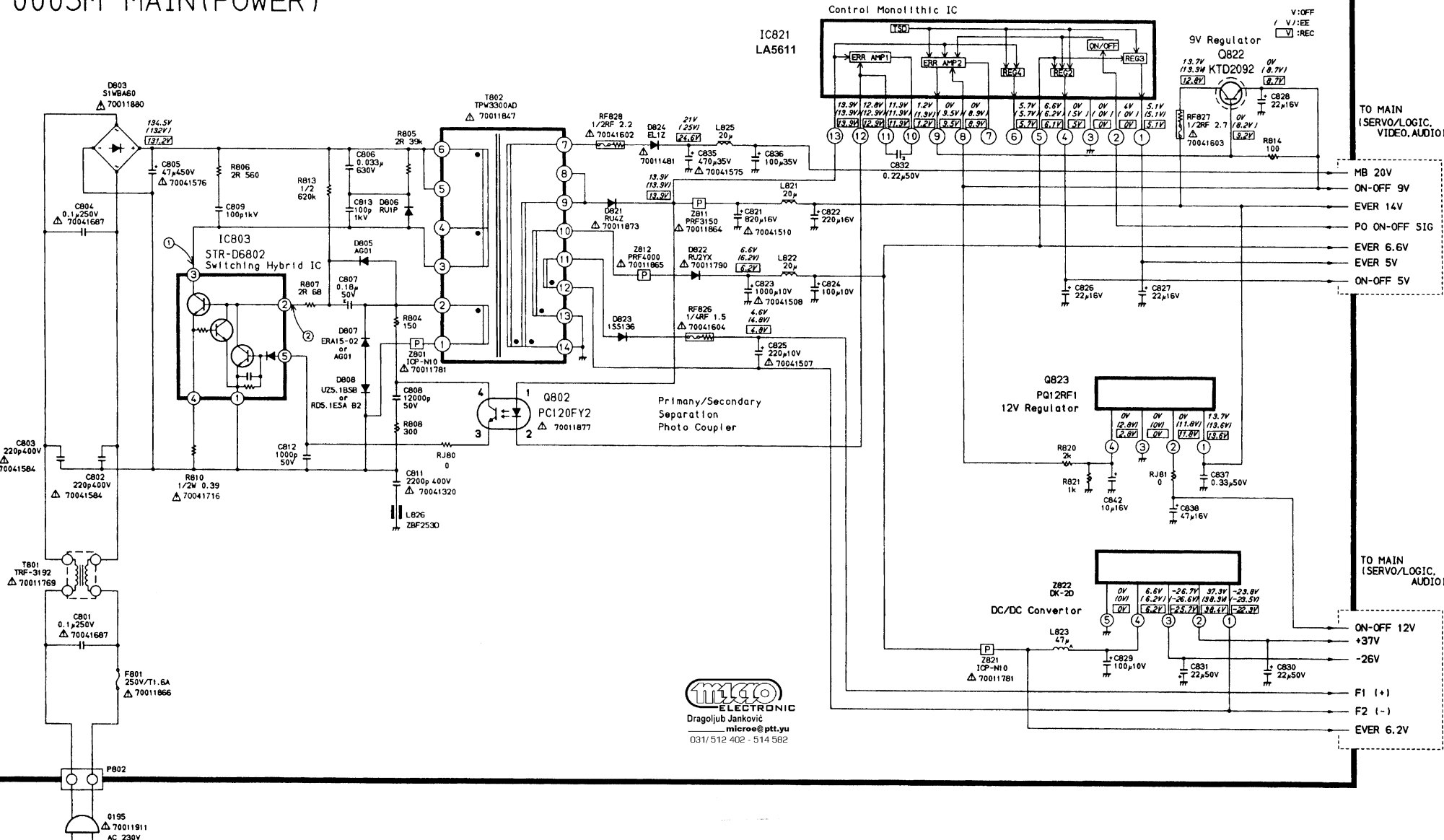
P831	
1	AC CLOCK
2	F2
3	F1
4	MOTOR GND
5	EVER +14V
6	GND
7	GND
8	EVER 6.6V
9	ON/OFF +9V B
10	ON/OFF +9V E

TO U001 LOGIC/SERVO W824 (TO PAGE 49)

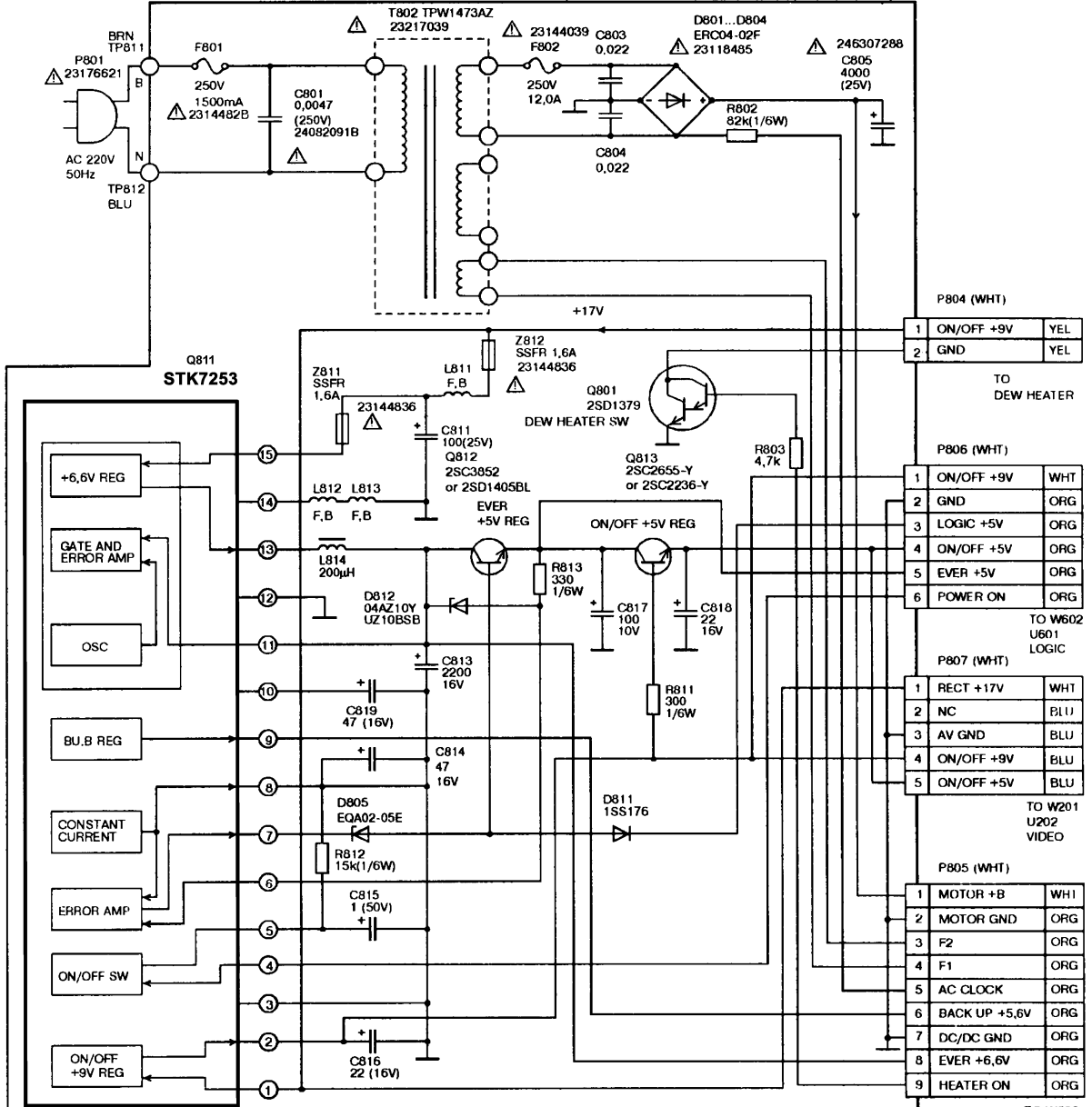
V: OFF  
 ( ) V: EE  
 □ V: REC

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# 0005M MAIN(POWER)



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031/512.402 - 514.582



P804 (WHT)

1	ON/OFF +9V	YEL
2	GND	YEL

TO DEW HEATER

P806 (WHT)

1	ON/OFF +9V	WHT
2	GND	ORG
3	LOGIC +5V	ORG
4	ON/OFF +5V	ORG
5	EVER +5V	ORG
6	POWER ON	ORG

TO W602 U601 LOGIC

P807 (WHT)

1	RECT +17V	WHT
2	NC	BLU
3	AV GND	BLU
4	ON/OFF +9V	BLU
5	ON/OFF +5V	BLU

TO W201 U202 VIDEO

P805 (WHT)

1	MOTOR +B	WHI
2	MOTOR GND	ORG
3	F2	ORG
4	F1	ORG
5	AC CLOCK	ORG
6	BACK UP +5.6V	ORG
7	DC/DC GND	ORG
8	EVER +6.6V	ORG
9	HEATER ON	ORG

TO W602 U601 LOGIC

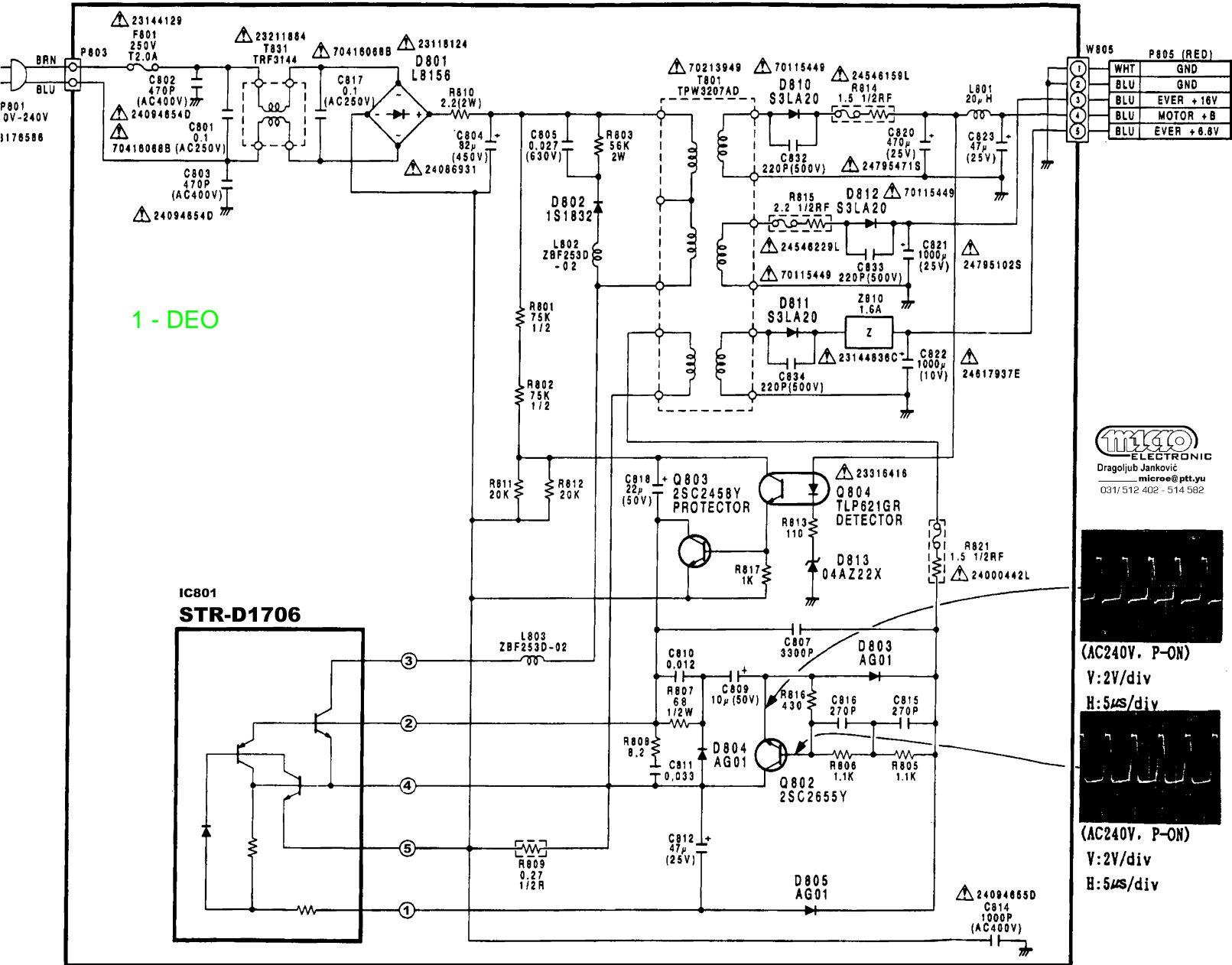
IC811 (V)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
STANDBY	20.0	0	-	3.5	0	4.9	5.4	4.9	5.5	7.2	6.7	-	6.7	-	20.0
EE	18.5	8.9	-	0	5.7	5.0	5.6	5.0	5.6	7.1	6.6	-	6.6	-	18.5
PLAY	18.0	8.9	-	0	5.7	5.0	5.6	5.0	5.6	7.1	6.6	-	6.6	-	18.0
REC	17.4	8.9	-	0	5.7	5.0	5.6	5.0	5.6	7.1	6.6	-	6.6	-	17.4

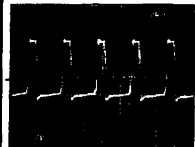
(V)

	Q801			Q812			Q813		
	C	B	E	C	B	E	C	B	E
STANDBY	0	1.3	0	6.7	5.4	4.9	4.9	0	0
EE	18.5	0	0	6.6	5.6	5.0	5.0	5.7	5.0
PLAY	18.0	0	0	6.6	5.6	5.0	5.0	5.7	5.0
REC	17.4	0	0	6.6	5.6	5.0	5.0	5.7	5.0

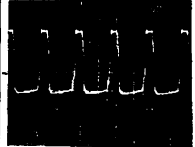
# U801 CONVERTER CIRCUIT



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(AC240V, P-ON)  
V:2V/div  
H:5µs/div



(AC240V, P-ON)  
V:2V/div  
H:5µs/div

# U602 REGULATOR CIRCUIT

