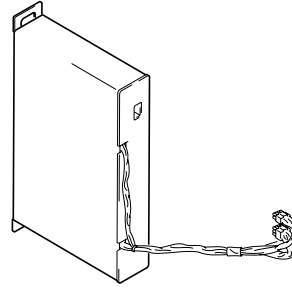


Service Manual



ORDER NO.
ARP3021

DIGITAL TV TUNER SH-D07

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	SH-D07		
KU	○	AC120V	

- The service supplied parts are only listed at page 3 and 6.
- The parts listed at page 73 to page 87 are not supplied as a service part.

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■ ATV-1 UNIT-1/12

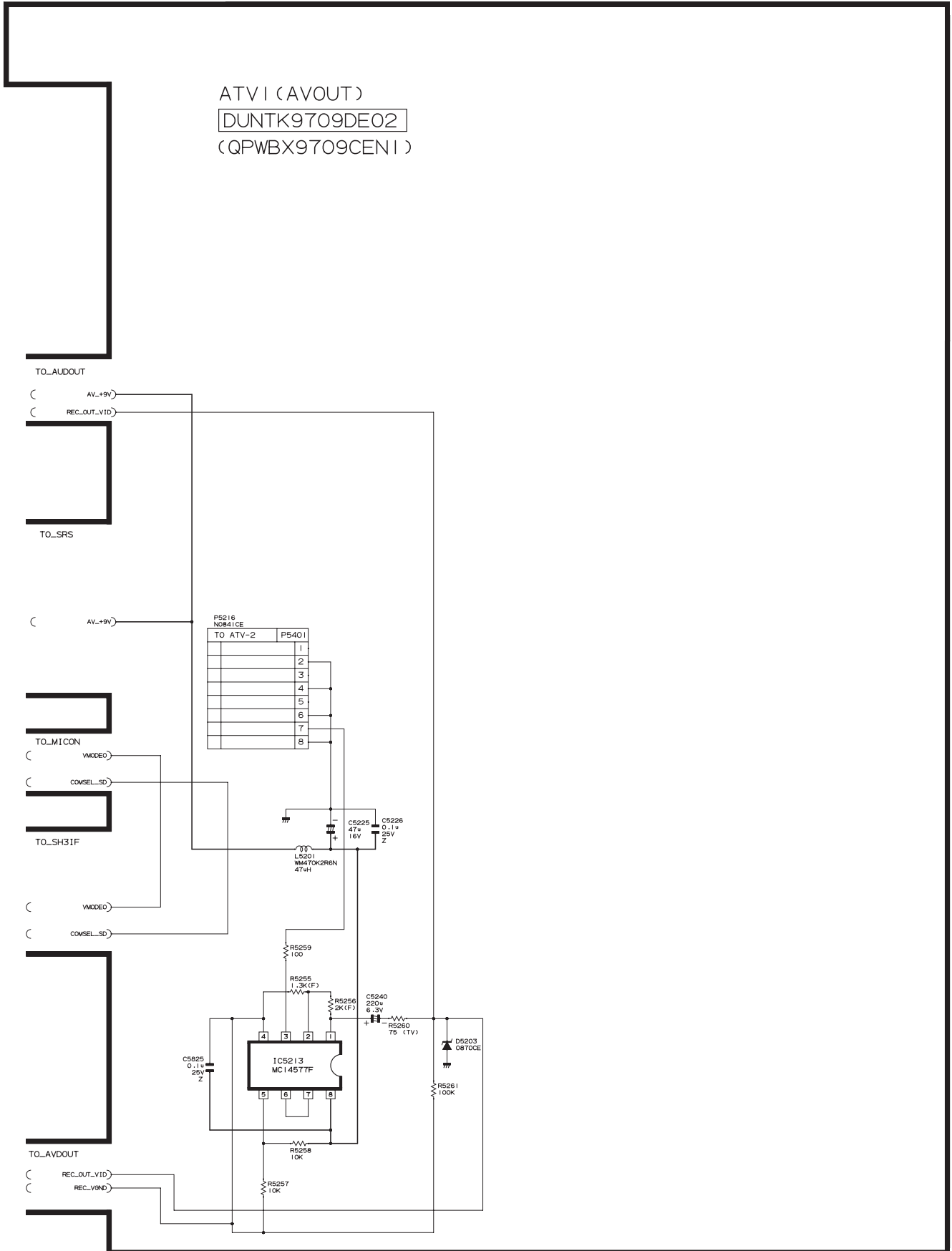
A

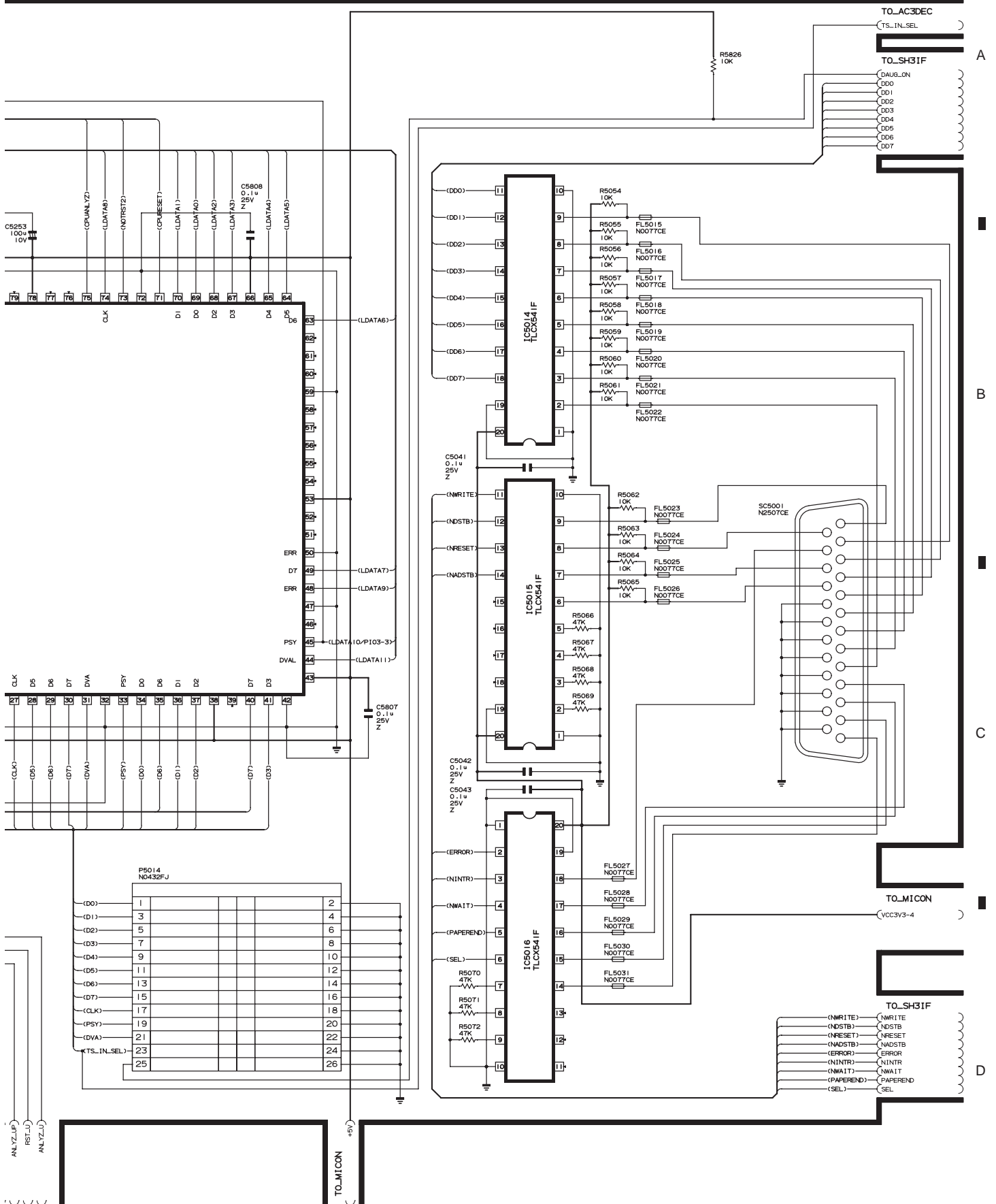
B

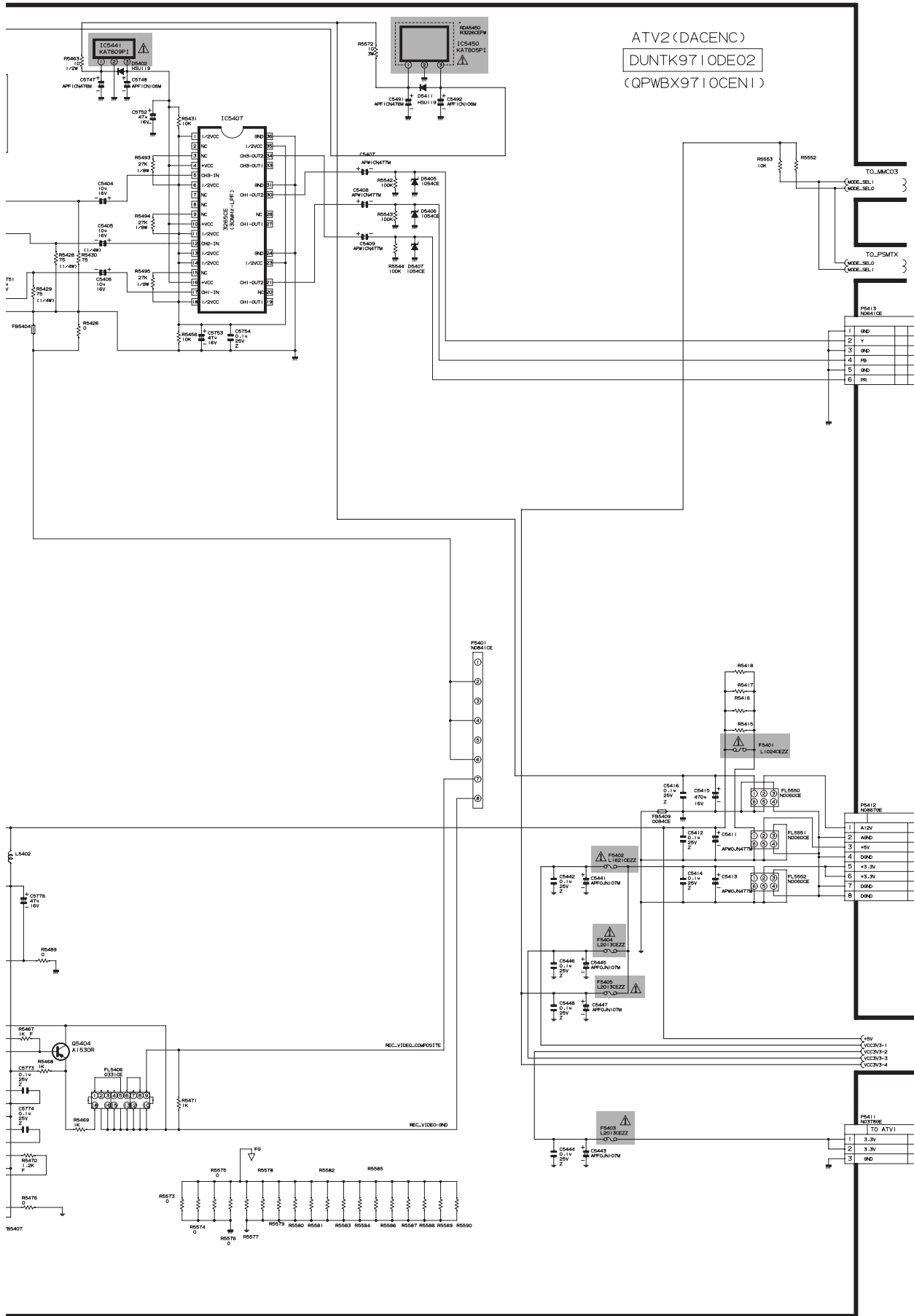
C

D

ATV1 (AVOUT)
 DUNTK9709DE02
 (QPWBX9709CEN1)





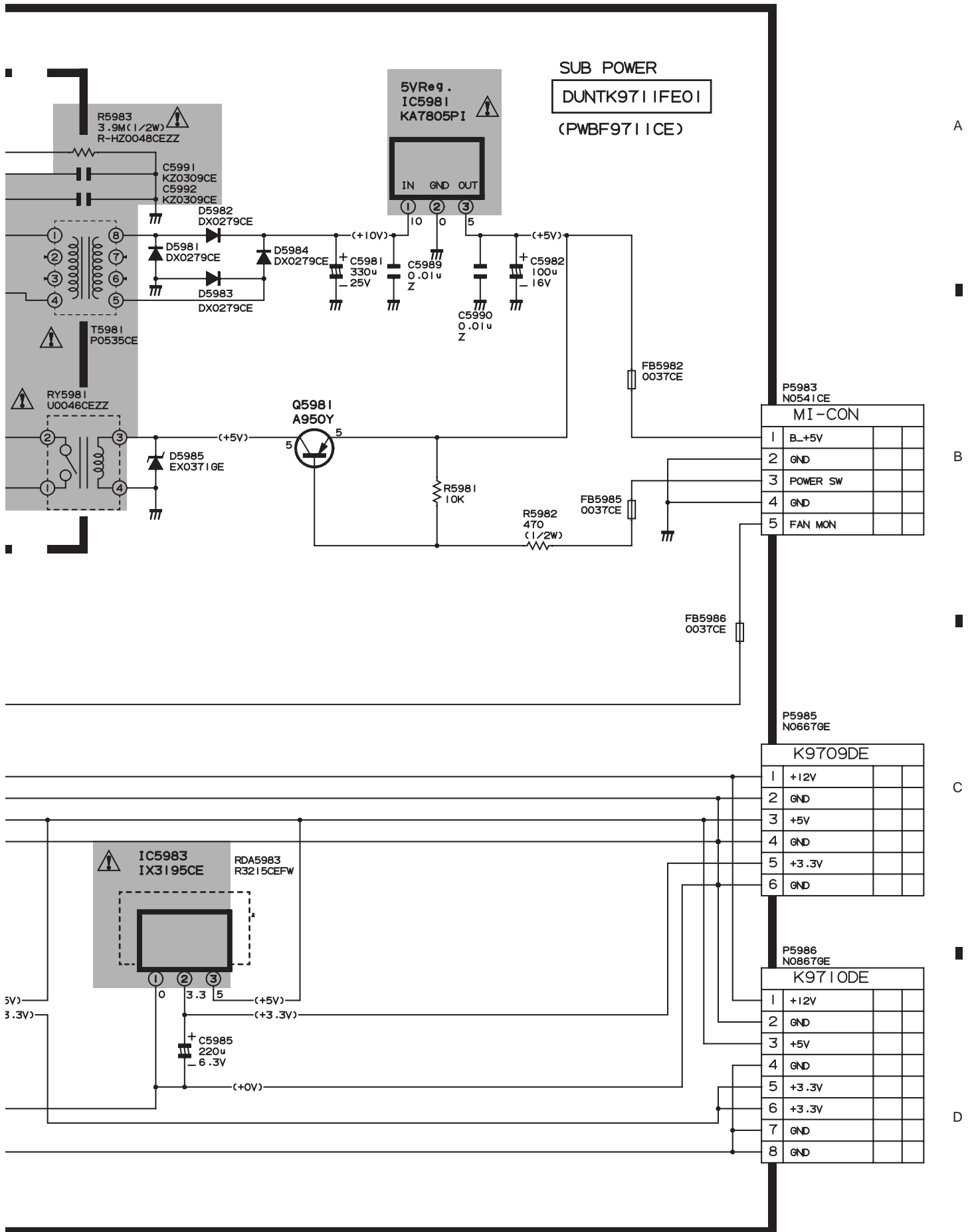


A

B

C

D



SUB POWER
 DUNTK9711FE01
 (PWBF9711CE)

P5983
N0541CE

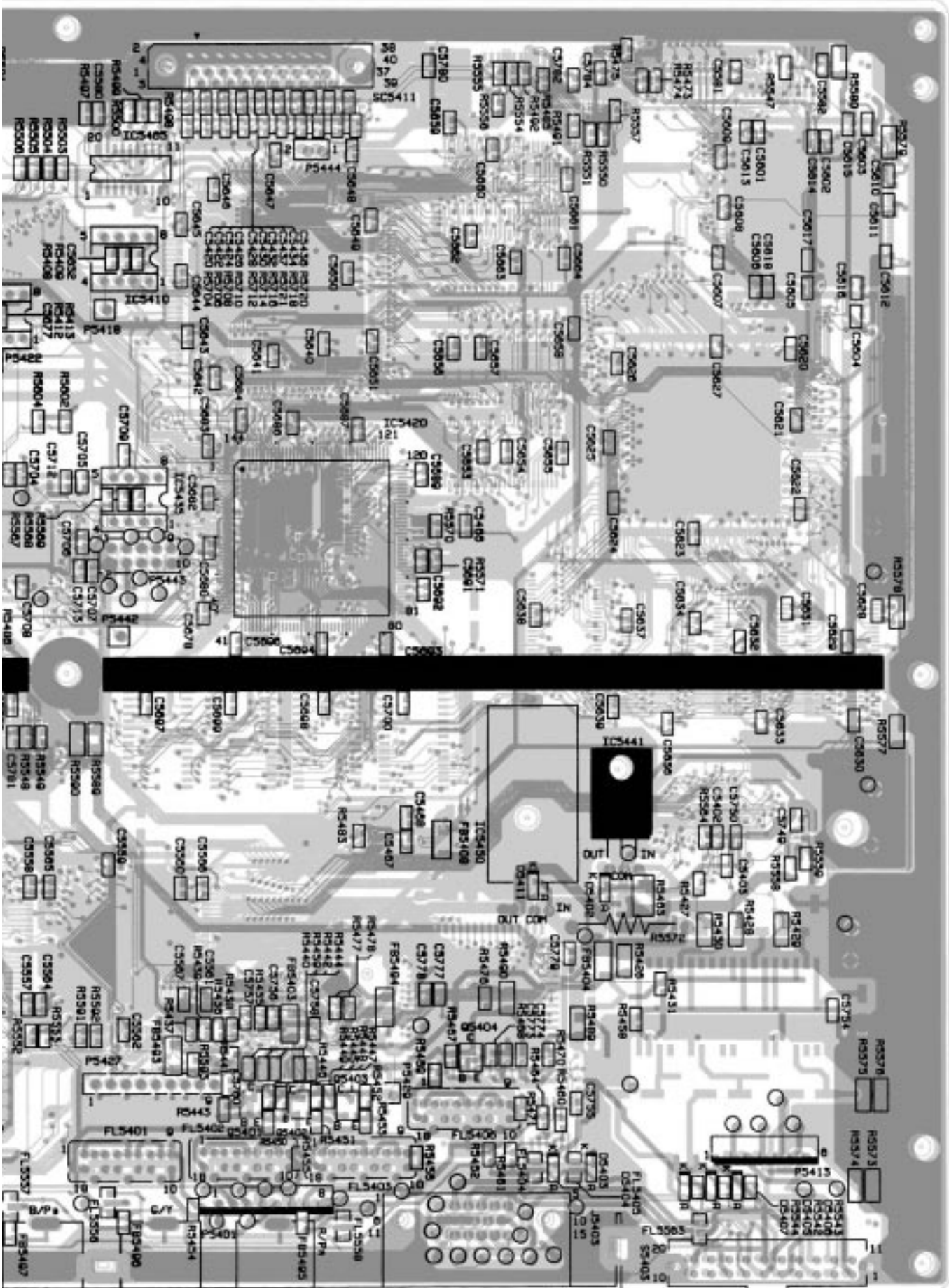
MI-CON		
1	B_+5V	
2	GND	
3	POWER SW	
4	GND	
5	FAN MON	

P5985
N0667GE

K9709DE		
1	+12V	
2	GND	
3	+5V	
4	GND	
5	+3.3V	
6	GND	

P5986
N0867GE

K9710DE		
1	+12V	
2	GND	
3	+5V	
4	GND	
5	+3.3V	
6	+3.3V	
7	GND	
8	GND	



A

B

C

D

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DUNTK9710FE02					C5481	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD
ATV-2 UNIT (Continued)					C5482	VCEAPT1AN107M	J 100	10V Electrolytic	AD
TRANSISTORS					C5483	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD
Q5404	VS2SA1530R/-1	J	2SA1530R	AB	C5484	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD
DIODES					C5485	VCEAPT1AN107M	J 100	10V Electrolytic	AD
D5402	VHDHSU119// -1	J	Diode	AB	C5486	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD
D5405	RH-EX1054CEZZ	J	Zener Diode	AC	C5488	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD
D5406	RH-EX1054CEZZ	J	Zener Diode	AC	C5489	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD
D5407	RH-EX1054CEZZ	J	Zener Diode	AC	C5490	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD
D5411	VHDHSU119// -1	J	Diode	AB	C5491	VCEAPF1CN476M	J 47	16V Electrolytic	AD
PACKAGED CIRCUITS					C5492	VCEAPF1CN106M	J 10	16V Electrolytic	AD
X5401	RCRSZ0068CEZZ	J	Crystal	AQ	C5551	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
X5402	RCRSZ0068CEZZ	J	Crystal	AQ	C5552	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
X5403	RCRSZ0073CEZZ	J	Crystal	AP	C5553	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
FILTERS					C5554	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
FL5406	RFILC0331CEZZ	J	Filter	AL	C5557	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
FL5407	RCILF0320CEZZ	J	Coil	BA	C5558	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
FL5550	RFILN0060CEZZ	J	Filter	AS	C5559	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
FL5551	RFILN0060CEZZ	J	Filter	AS	C5560	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
FL5552	RFILN0060CEZZ	J	Filter	AS	C5561	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
CAPACITORS					C5562	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5402	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5564	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5403	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5565	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5404	VCEAPF1CW106M	J 10	16V Electrolytic	AB	C5566	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5405	VCEAPF1CW106M	J 10	16V Electrolytic	AB	C5567	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5406	VCEAPF1CW106M	J 10	16V Electrolytic	AB	C5568	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5407	VCEAPW1CN477M	J 470	16V Electrolytic	AE	C5569	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5408	VCEAPW1CN477M	J 470	16V Electrolytic	AE	C5570	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5409	VCEAPW1CN477M	J 470	16V Electrolytic	AE	C5571	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5411	VCEAPW0JN477M	J 470	6.3V Electrolytic	AE	C5572	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5412	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5573	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5413	VCEAPW0JN477M	J 470	6.3V Electrolytic	AE	C5574	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5414	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5575	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5415	VCEAPX1CW477M	J 470	16V Electrolytic	AE	C5576	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5416	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5577	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5441	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD	C5579	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5442	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5580	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5443	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD	C5581	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5444	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5582	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5445	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD	C5583	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5446	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5601	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5447	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD	C5602	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5448	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5603	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5450	RC-EZ0464CEZZ	J 3.3	16V Electrolytic	AD	C5604	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5466	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5605	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5467	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5606	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5468	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C5607	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5469	VCEAPF1HN225M	J 2.2	50V Electrolytic	AD	C5608	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5479	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD	C5609	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C5480	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD	C5610	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
					C5611	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
					C5612	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
					C5613	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
					C5614	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
					C5615	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA

■ Check mode

In this mode, the basic performance of the hardware that is connected with the main microprocessor (SH3) is checked up. The check results are displayed on the screen.

1) Check mode screen and switching

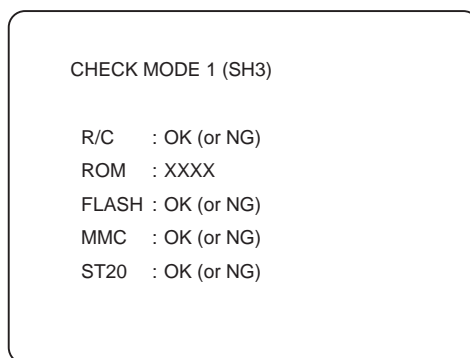
There are three screens for the check mode. Press the SELECT key on the set or the R/C unit, and at each push the three screens get switched one after the other.

2) Limitations with the check mode

In the check mode, the DTV's basic operation cannot be performed. Check-related control only is possible.

3) Information displayed in the check mode

CHECK MODE 1 screen



CHECK MODE 1 (SH3):

Tells that the set is in the check mode 1. Commands from the SH3 main microprocessor are checked.

R/C:

Shows how well communication is with the R/C unit's microprocessor.

OK: Indicates that the SH3 communicates well with the R/C unit's microprocessor.

NG: Indicates that the SH3 fails to communicate with the R/C unit's microprocessor.

ROM : XXXX :

Sum-checks the ROM. The ROM's sum-check results are displayed via the SH3.

FLASH :

Indicates the condition of the flash.

OK : Indicates that the flash is read correctly.

NG: Indicates that the fixed values on the flash are not correctly read.

MMC:

Checks the MMC's boot-up.

This check goes from the MMC1 to the MMC3.

OK: Indicates that the MMC gets booted correctly.

NG: Indicates that the MMC fails to get booted.

ST20:

Checks the ST20's boot-up.

OK: Indicates that the ST20 gets booted correctly.

NG: Indicates that the ST20 fails to get booted.

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