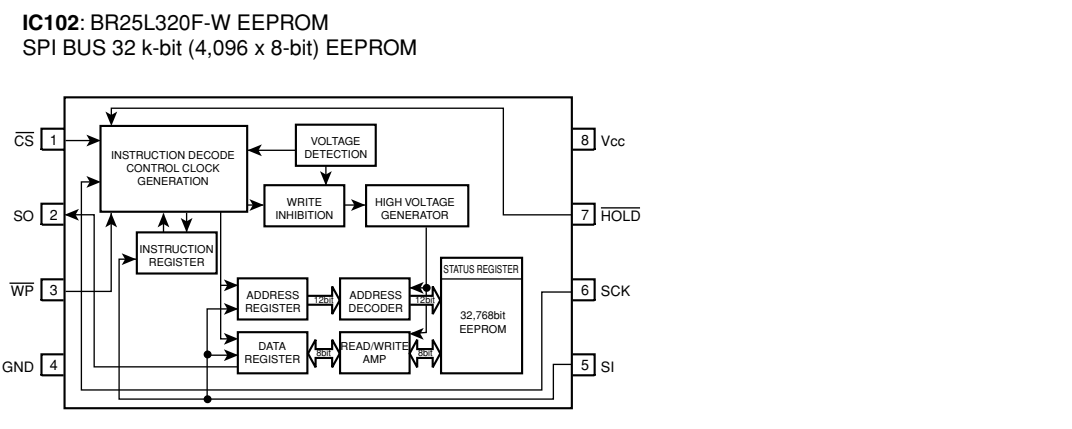
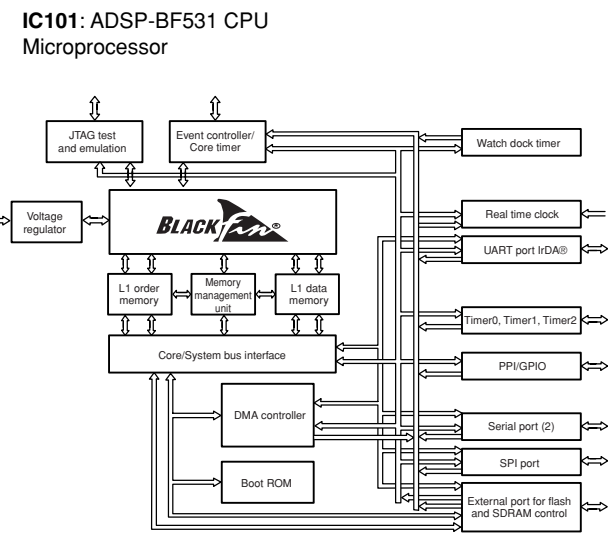
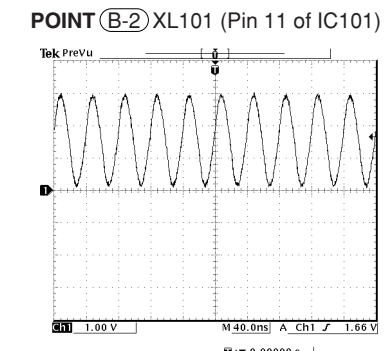


REMARKS	PARTS_NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
⊞	FIRE PROOF CARBON FILM RESISTOR
⊞	CEMENT MOLDED RESISTOR
⊞	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

REMARKS	PARTS_NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
○	CERAMIC CAPACITOR
●	CERAMIC TUBULAR CAPACITOR
⊙	POLYESTER FILM CAPACITOR
⊚	POLYSTYRENE FILM CAPACITOR
⊛	MICA CAPACITOR
⊜	POLYPROPYLENE FILM CAPACITOR
⊝	SEMICONDUCTIVE CERAMIC CAPACITOR
⊞	POLYPHENYLENE SULFIDE FILM CAPACITOR

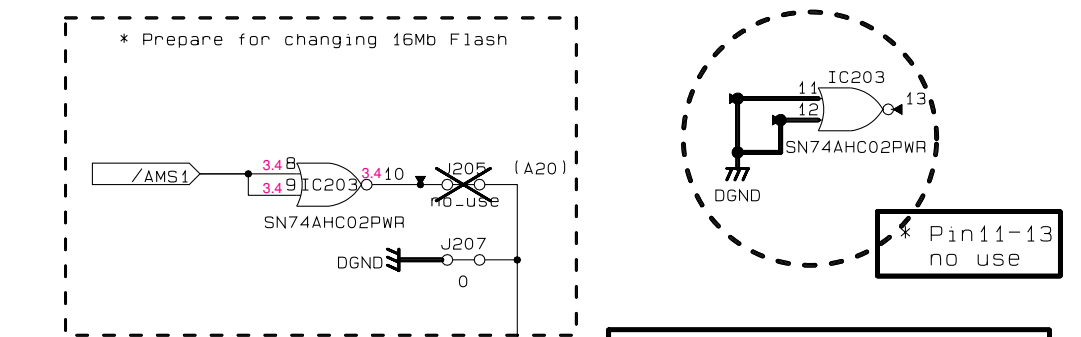
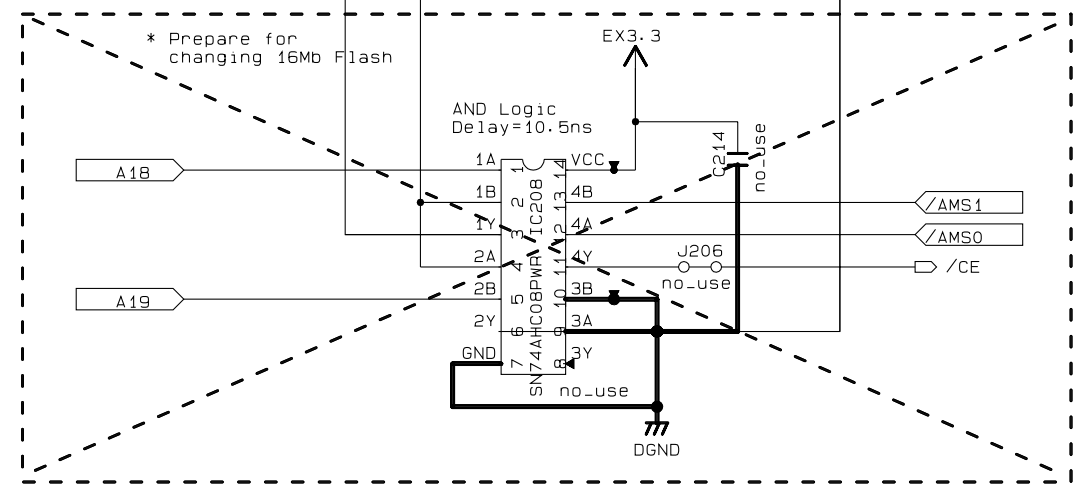
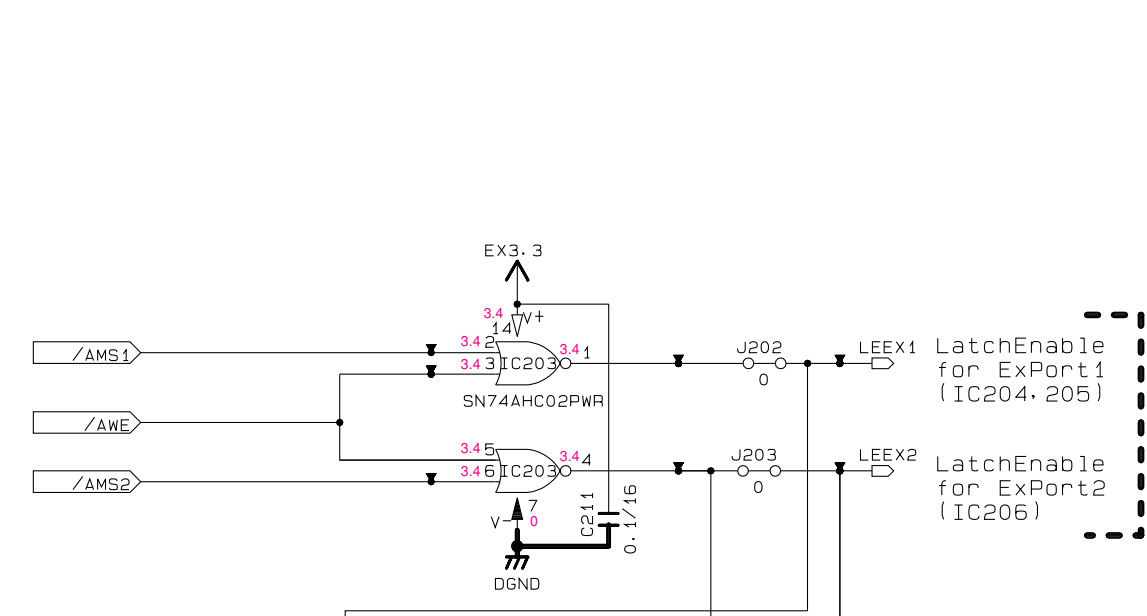
NOTICE (mode))  
(J)..... JAPAN  
(U)..... U.S.A  
(C)..... CANADA  
(R)..... GENERAL  
(T)..... CHINA  
(K)..... KOREA  
(A)..... AUSTRALIA  
(B)..... BRITISH  
(G)..... EUROPE  
(L)..... SINGAPORE  
(E)..... SOUTH EUROPE  
(V)..... TAIWAN  
(F)..... RUSSIAN



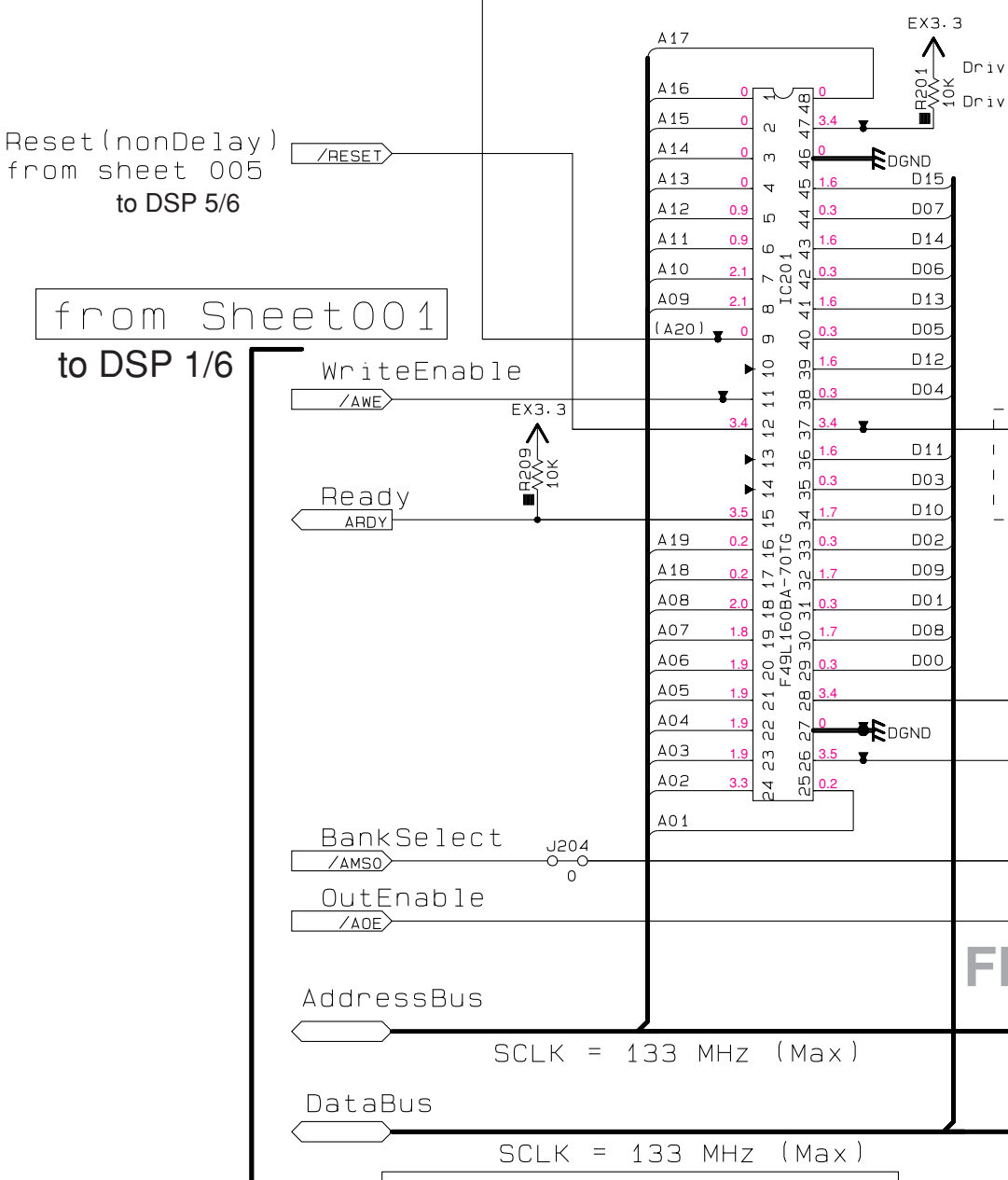
\* All voltages are measured with a 10MQ/V DC electronic voltmeter.  
\* Components having special characteristics are marked .! and must be replaced with parts having specifications equal to those originally installed.  
\* Schematic diagram is subject to change without notice.



DSP 2/6



**FlashROM**  
X9590A0  
(F49L160BA-70TG)

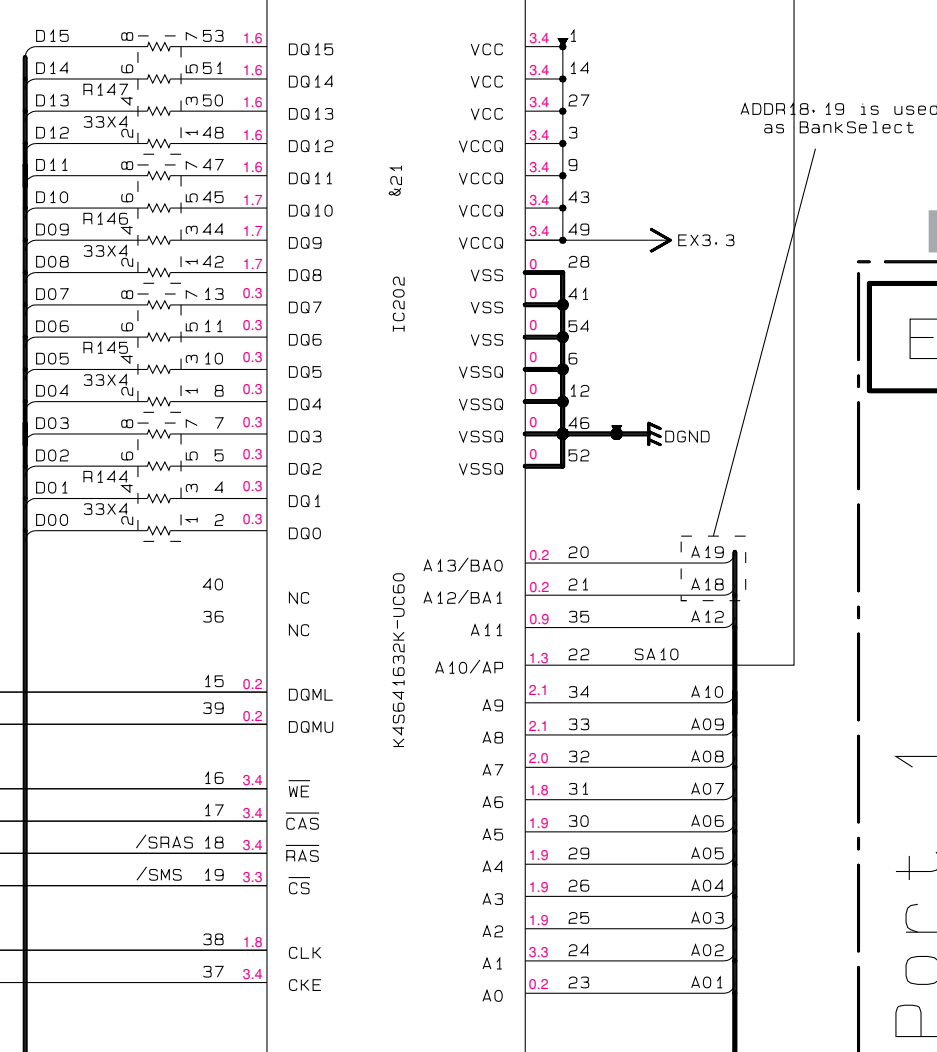


- Asynchronous Memory Bank '0'
- Setup : \*\* Cycle (1-4)
  - Read : \*\* Cycle (1-15)
  - Write : \*\* Cycle (1-15)
  - Hold : \*\* Cycle (0-3)
  - Trans : \*\* Cycle (1-4)

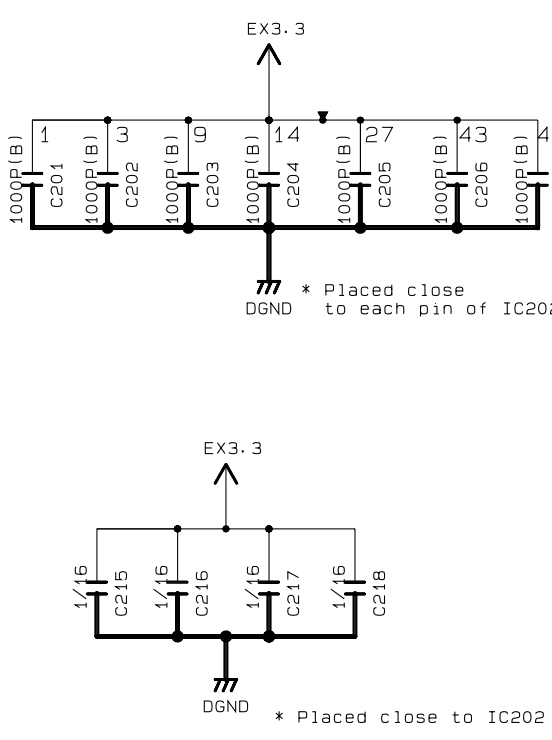
\* If use 16Mb FlashROM  
Setup = 3. Read = Write = 10 for FlashROM  
Setup = 4. Write = 3 for Ex-Port

to DSP 1/6  
from sheet 001

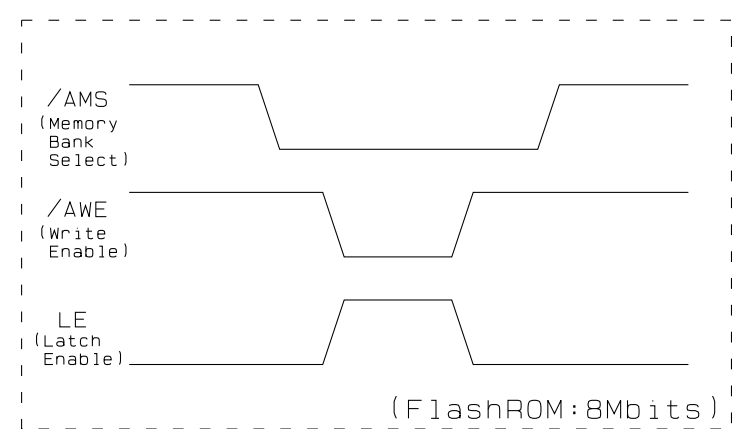
**SDRAM**  
SDRAM



Decoupling Capacitor for SDRAM \*pin

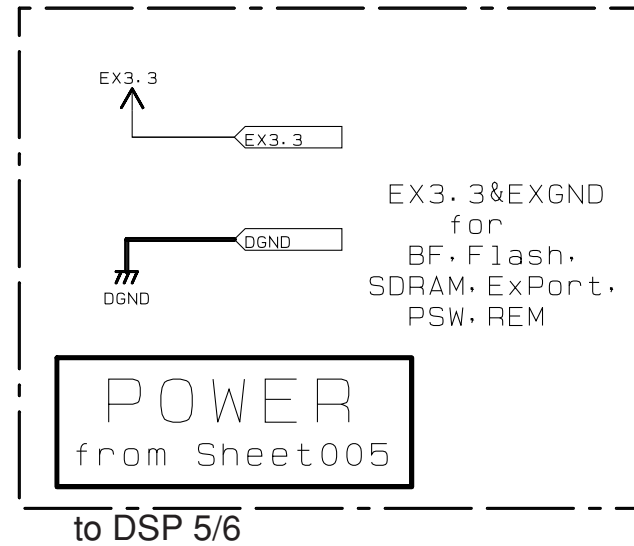


- Asynchronous Memory Bank '2'
- Setup : \*\* Cycle (1-4)
  - Read : \*\* Cycle (1-15)
  - Write : \*\* Cycle (1-15)
  - Hold : \*\* Cycle (0-3)
  - Trans : \*\* Cycle (1-4)

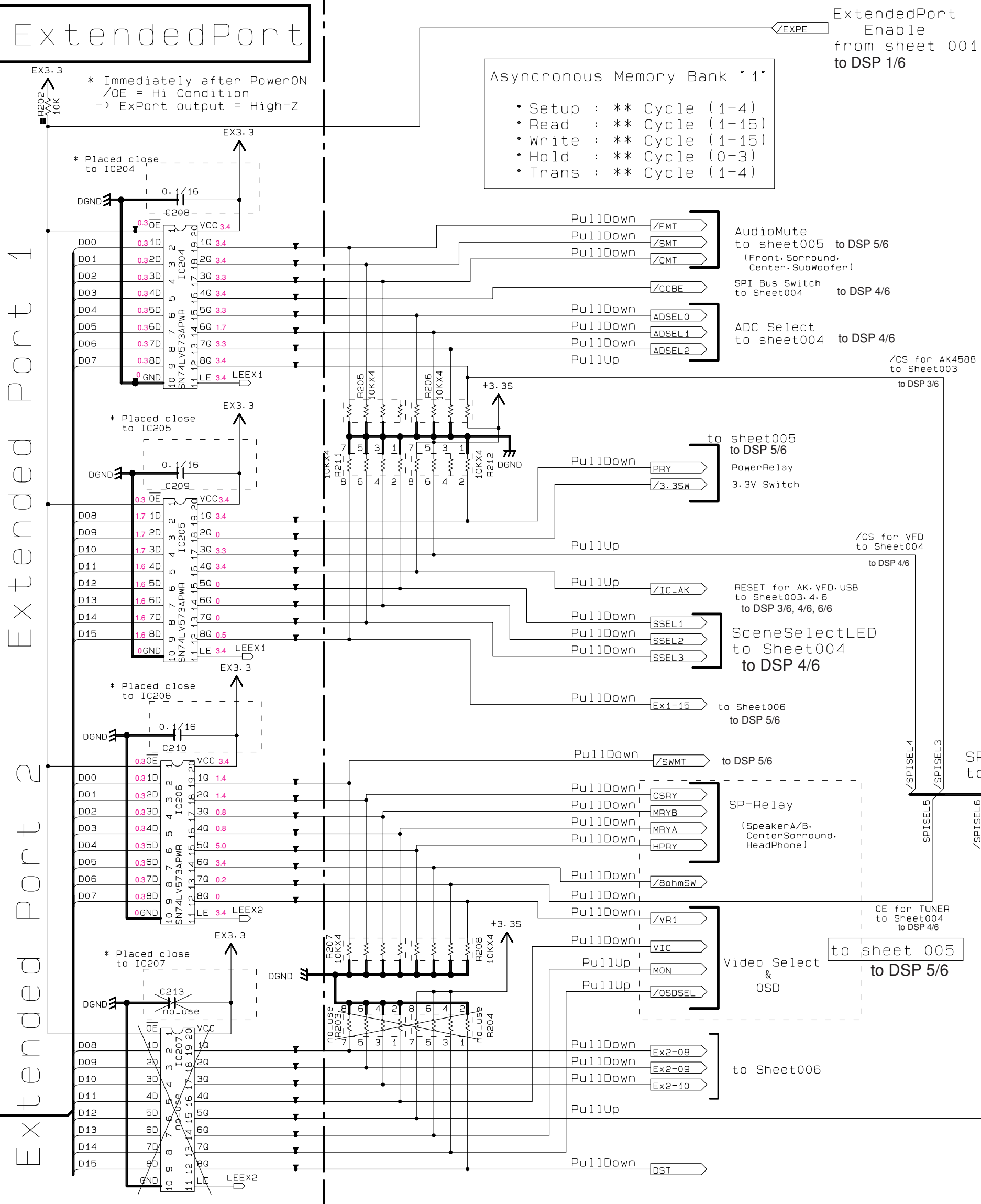


Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
421	IC202	K4S641632K-UC60000 M12L64164A-5TG

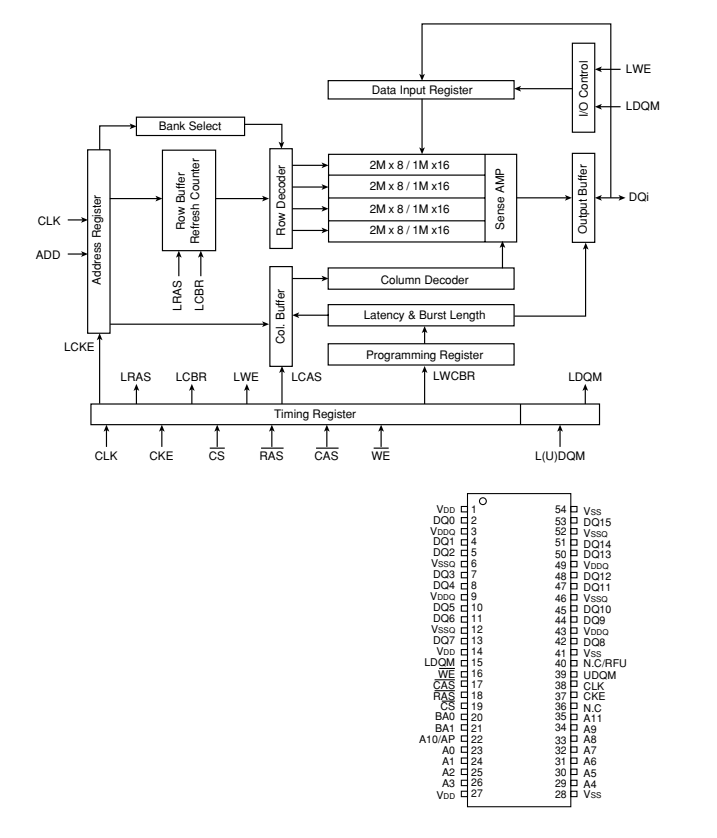


**EXTENDED PORT**  
ExtendedPort

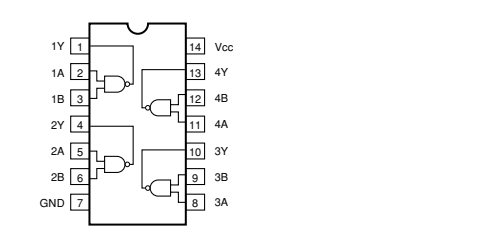


- Asynchronous Memory Bank '1'
- Setup : \*\* Cycle (1-4)
  - Read : \*\* Cycle (1-15)
  - Write : \*\* Cycle (1-15)
  - Hold : \*\* Cycle (0-3)
  - Trans : \*\* Cycle (1-4)

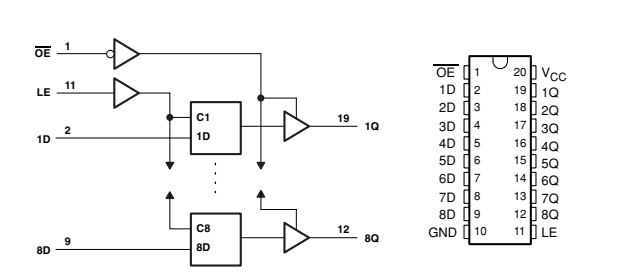
IC202: K4S641632K-UC60000  
64 M synchronous DRAM



IC203: SN74AHC02PWR  
Quaduple 2-input positive-NOR gates



IC204-206: SN74LV573APWR  
Octal transparent D-type latches with 3-state outputs



RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
■	METAL PLATE RESISTOR
⊠	FIRE-PROOF CARBON FILM RESISTOR
⊞	CEMENT MOLDED RESISTOR
⊚	SEMI-VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

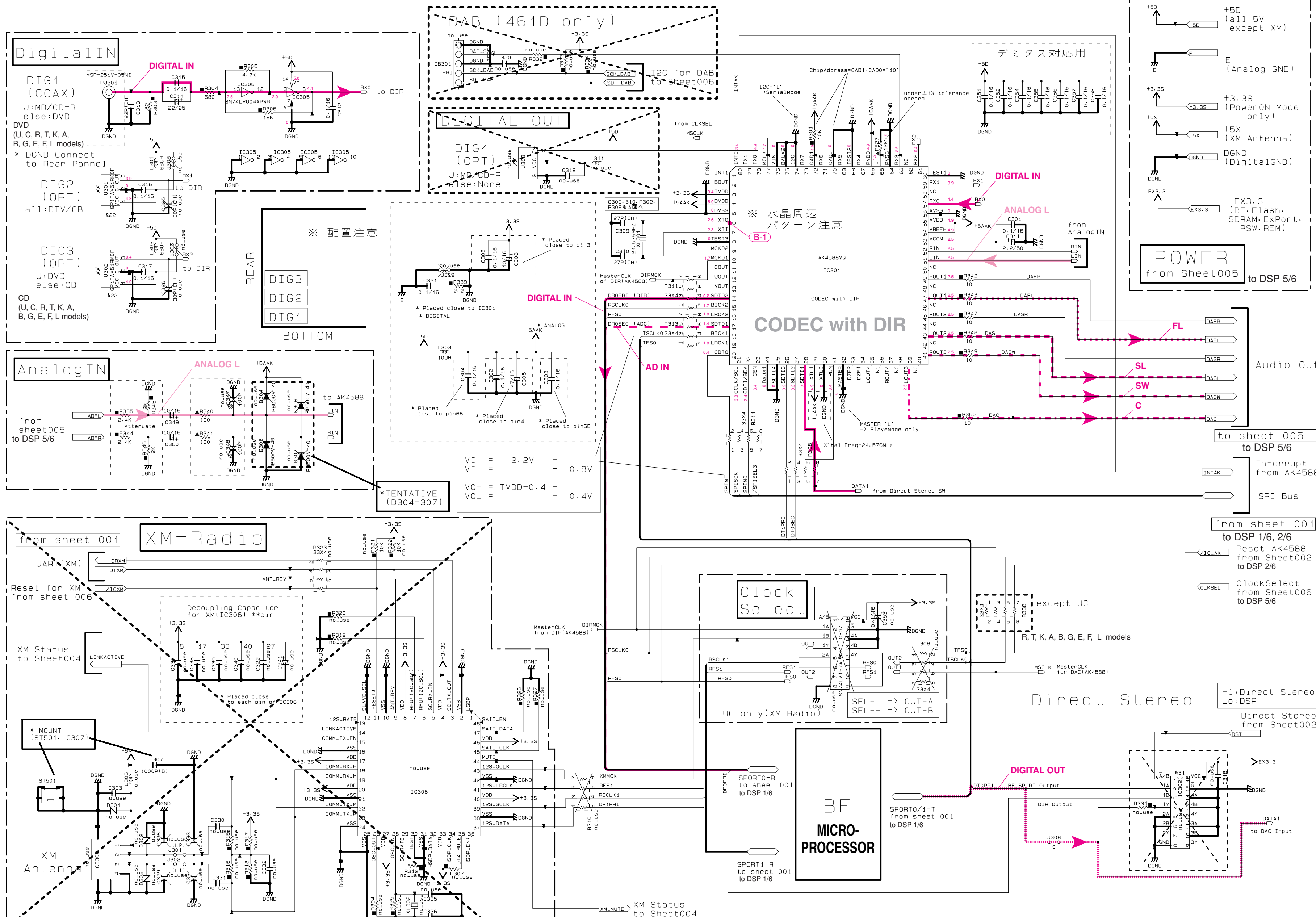
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	CERAMIC TUBULAR CAPACITOR
△	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
⊖	MICA CAPACITOR
⊕	POLYPROPYLENE FILM CAPACITOR
⊗	SEMICONDUCTIVE CERAMIC CAPACITOR
⊙	POLYPHENYLENE SULFIDE FILM CAPACITOR

NOTICE (mode11)  
(J)..... JAPAN  
(U)..... U.S.A  
(C)..... CANADA  
(R)..... GENERAL  
(T)..... CHINA  
(K)..... KOREA  
(A)..... AUSTRALIA  
(B)..... BRITISH  
(G)..... EUROPE  
(L)..... SINGAPORE  
(E)..... SOUTH EUROPE  
(V)..... TAIWAN  
(F)..... RUSSIAN

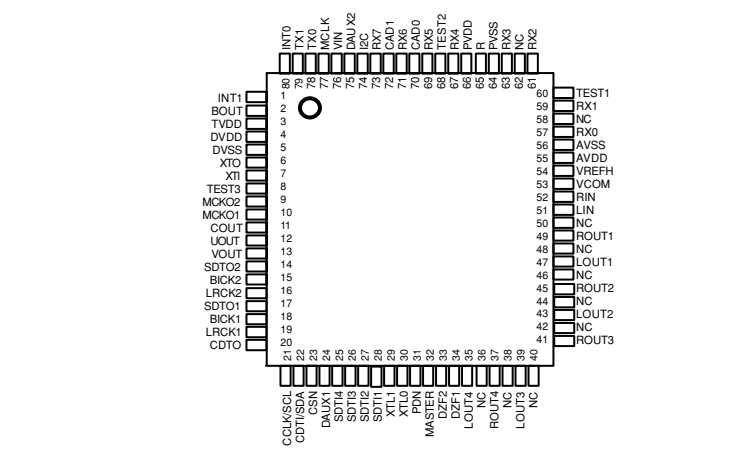
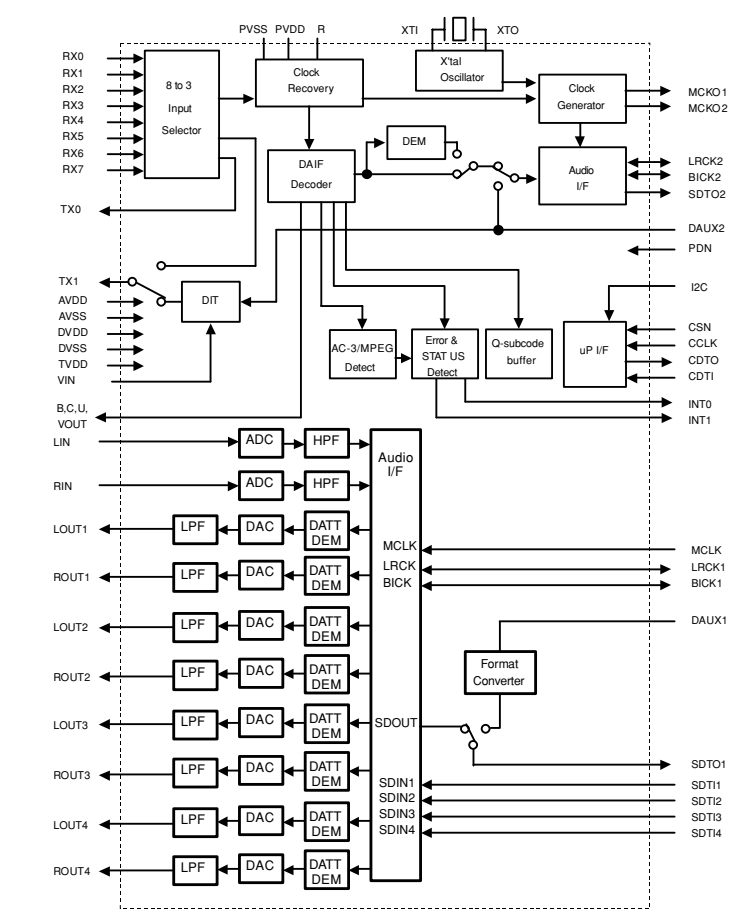
\* All voltages are measured with a 10MΩ/V DC electronic voltmeter.  
\* Components having special characteristics are marked with a triangle and must be replaced with parts having specifications equal to those originally installed.  
\* Schematic diagram is subject to change without notice.

Interchangeable Parts at Manufacture-Stage

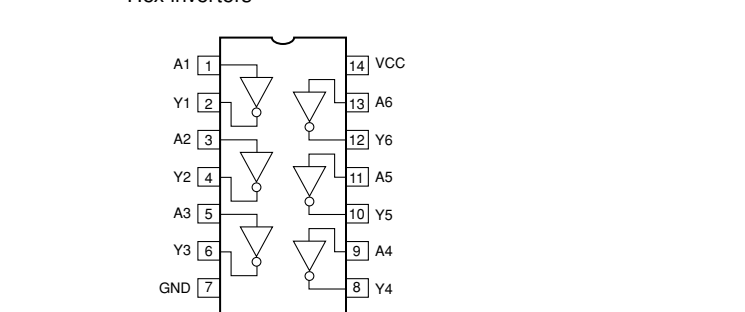
Mark	Reference Parts Number	Parts Name
422	U301-U302	JSR1165 GP1FAYS1RKF



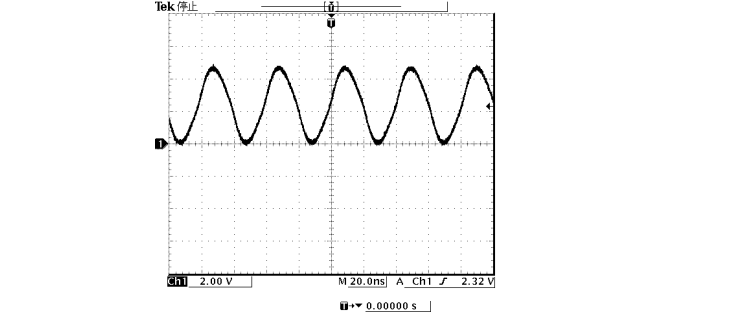
IC301: AK4588VQ 2/8-channel audio CODEC with DIR



IC305: SN74LV04APWR Hex inverters



POINT (E-1) XL301 (Pin 6 of IC301)



REMARKS	PARTS NAME	REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)	NO MARK	CERAMIC CAPACITOR
NO MARK	CARBON FILM RESISTOR (P=10)	NO MARK	ELECTROLYTIC CAPACITOR
NO MARK	METAL OXIDE FILM RESISTOR	NO MARK	TANTALUM CAPACITOR
NO MARK	METAL FILM RESISTOR	NO MARK	CERAMIC TUBULAR CAPACITOR
NO MARK	METAL PLATE CARBON FILM RESISTOR	NO MARK	POLYESTER FILM CAPACITOR
NO MARK	FIRE PROOF CARBON FILM RESISTOR	NO MARK	POLYSTYRENE FILM CAPACITOR
NO MARK	CEMENT MOLDED RESISTOR	NO MARK	MICA CAPACITOR
NO MARK	SEMI VARIABLE RESISTOR	NO MARK	POLYPROPYLENE FILM CAPACITOR
NO MARK	CHIP RESISTOR	NO MARK	SEMICONDUCTIVE CERAMIC CAPACITOR
		NO MARK	POLYPHENYLENE SULFIDE FILM CAPACITOR

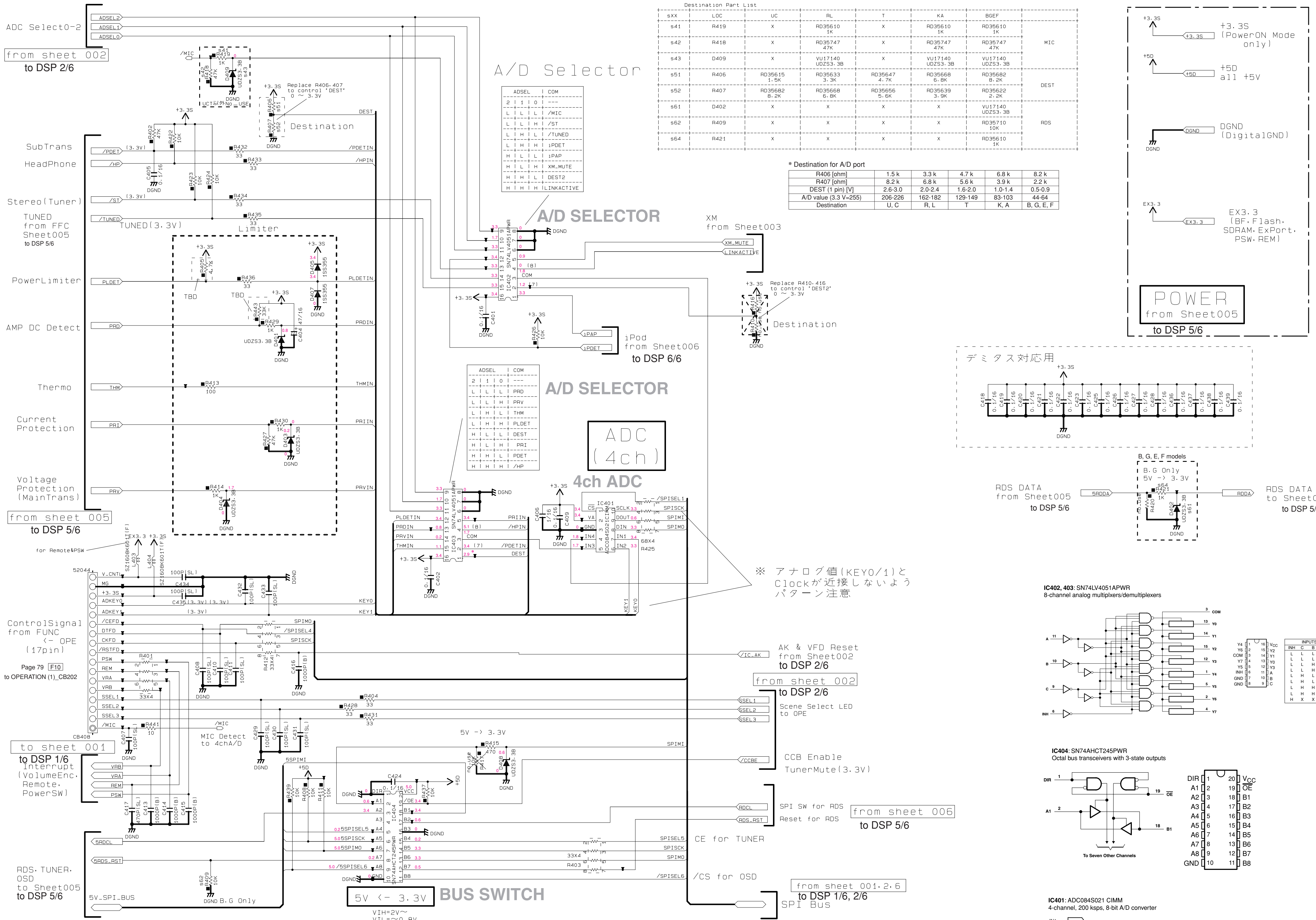
NOTICE (mode1)

(J)..... JAPAN  
 (U)..... U.S.A  
 (C)..... CANADA  
 (R)..... GENERAL  
 (I)..... CHINA  
 (K)..... KOREA  
 (A)..... AUSTRALIA  
 (B)..... BRITISH  
 (G)..... EUROPE  
 (L)..... SINGAPORE  
 (E)..... SOUTH EUROPE  
 (V)..... TAIWAN  
 (F)..... RUSSIAN

\* All voltages are measured with a 10MΩ/V DC electronic voltmeter.  
 \* Components having special characteristics are marked ! and must be replaced with parts having specifications equal to those originally installed.  
 \* Schematic diagram is subject to change without notice.



DSP 4/6

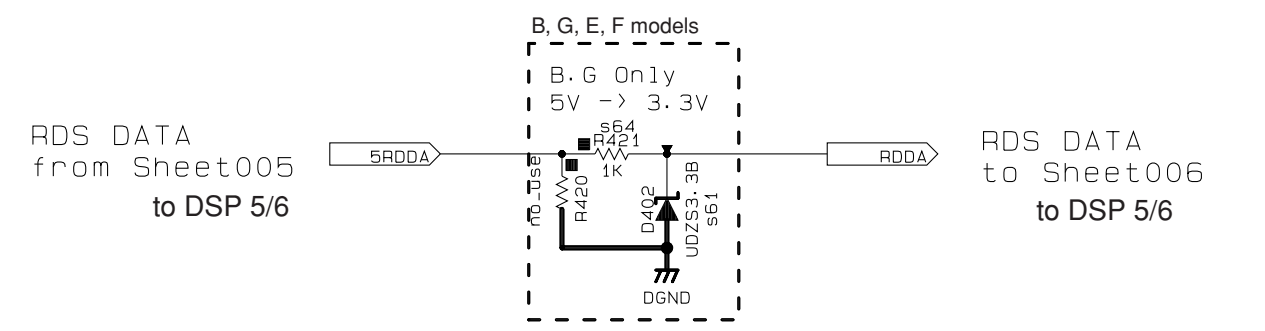
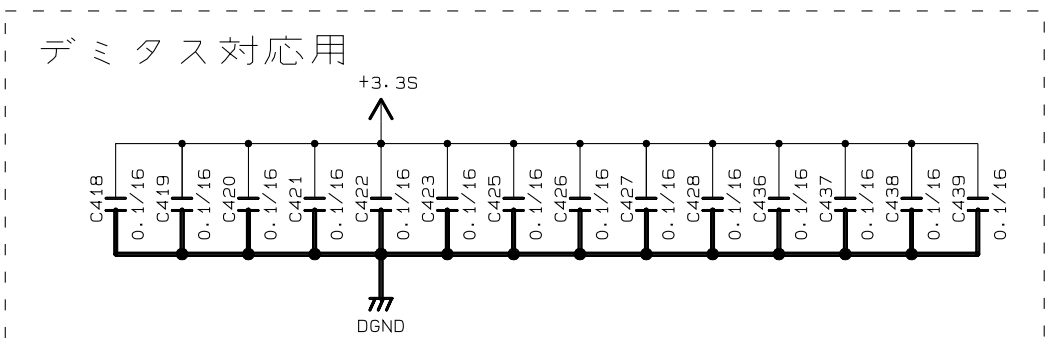
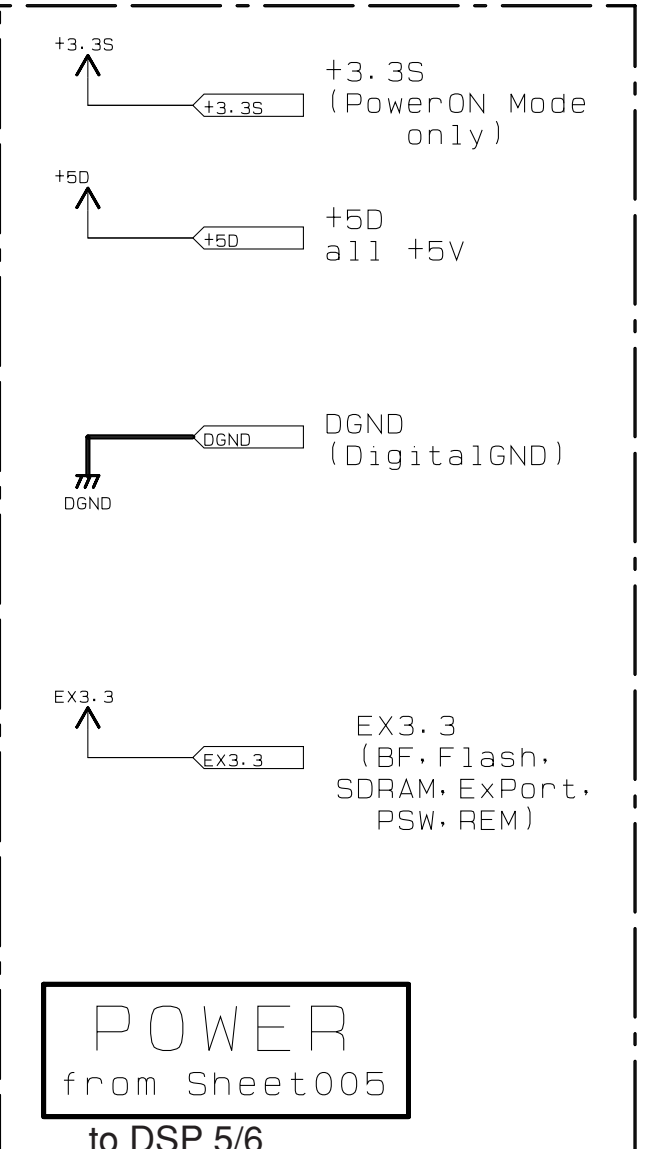


Destination Part List

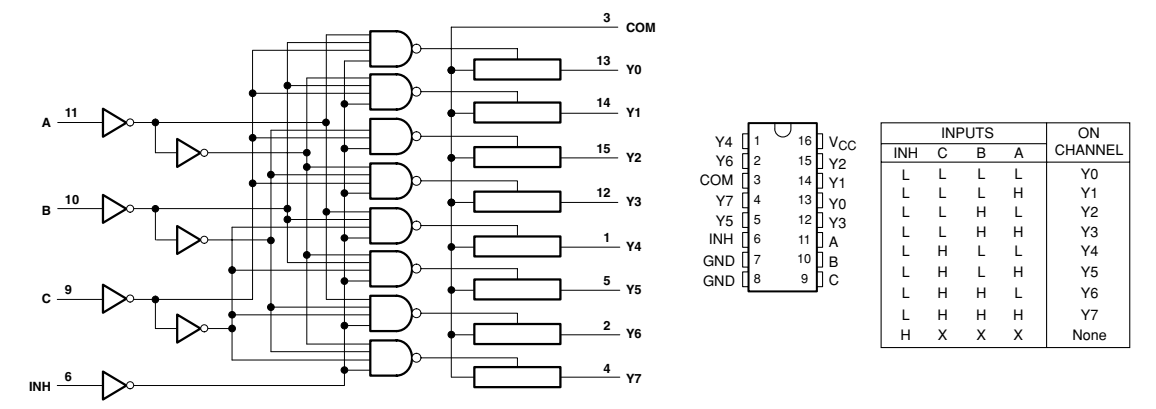
SXX	LOC	UC	RL	T	KA	BGEF
s41	R419	X	RD35610 1K	X	RD35610 1K	RD35610 1K
s42	R418	X	RD35747 47K	X	RD35747 47K	RD35747 47K
s43	D409	X	VU17140 UOZ53.3B	X	VU17140 UOZ53.3B	VU17140 UOZ53.3B
s51	R406	RD35615 1.5K	RD35633 3.3K	RD35647 4.7K	RD35668 6.8K	RD35682 8.2K
s52	R407	RD35682 8.2K	RD35668 6.8K	RD35656 5.6K	RD35639 3.9K	RD35622 2.2K
s61	D402	X	X	X	X	VU17140 UOZ53.3B
s62	R409	X	X	X	X	RD35710 10K
s64	R421	X	X	X	X	RD35610 1K

\* Destination for A/D port

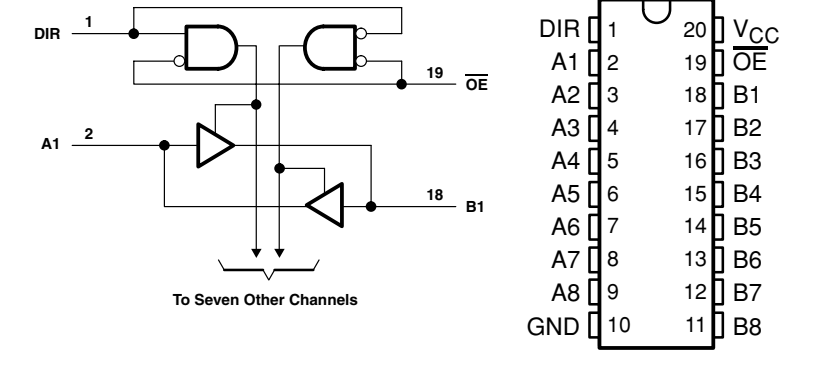
R406 (ohm)	1.5k	3.3k	4.7k	6.8k	8.2k
R407 (ohm)	8.2k	6.8k	5.6k	3.9k	2.2k
DEST (1 pin[V])	2.6-3.0	2.0-2.4	1.6-2.0	1.0-1.4	0.5-0.9
A/D value (3.3V=255)	206-226	162-182	129-149	83-103	44-64
Destination	U, C	R, L	T	K, A	B, G, E, F



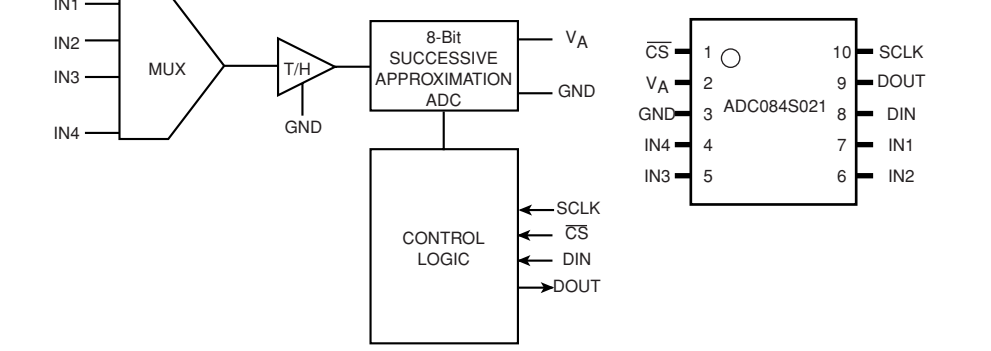
IC402, 403: SN74LV4051APWR  
8-channel analog multiplexers/demultiplexers



IC404: SN74AHCT245PWR  
Octal bus transceivers with 3-state outputs



IC401: ADC084S021 CIMM  
4-channel, 200 ksps, 8-bit A/D converter



RESISTOR

REMARKS	PARTS_NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
□	METAL PLATE RESISTOR
□	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
□	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

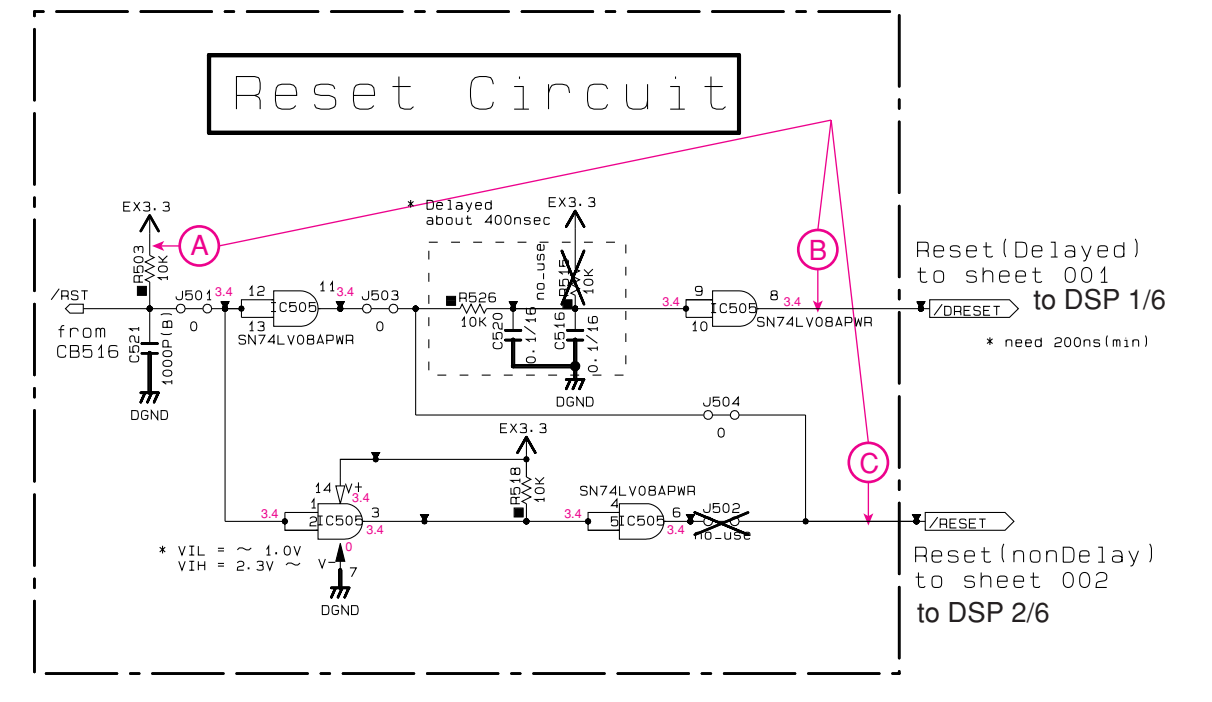
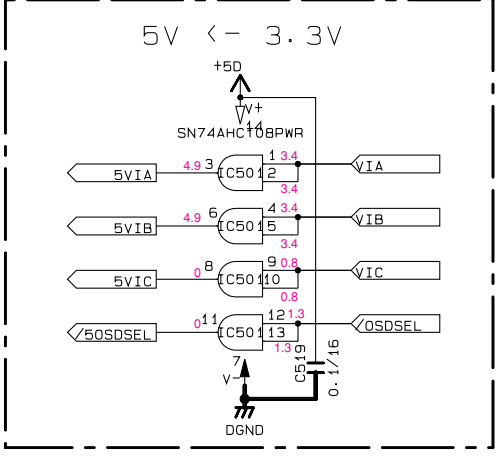
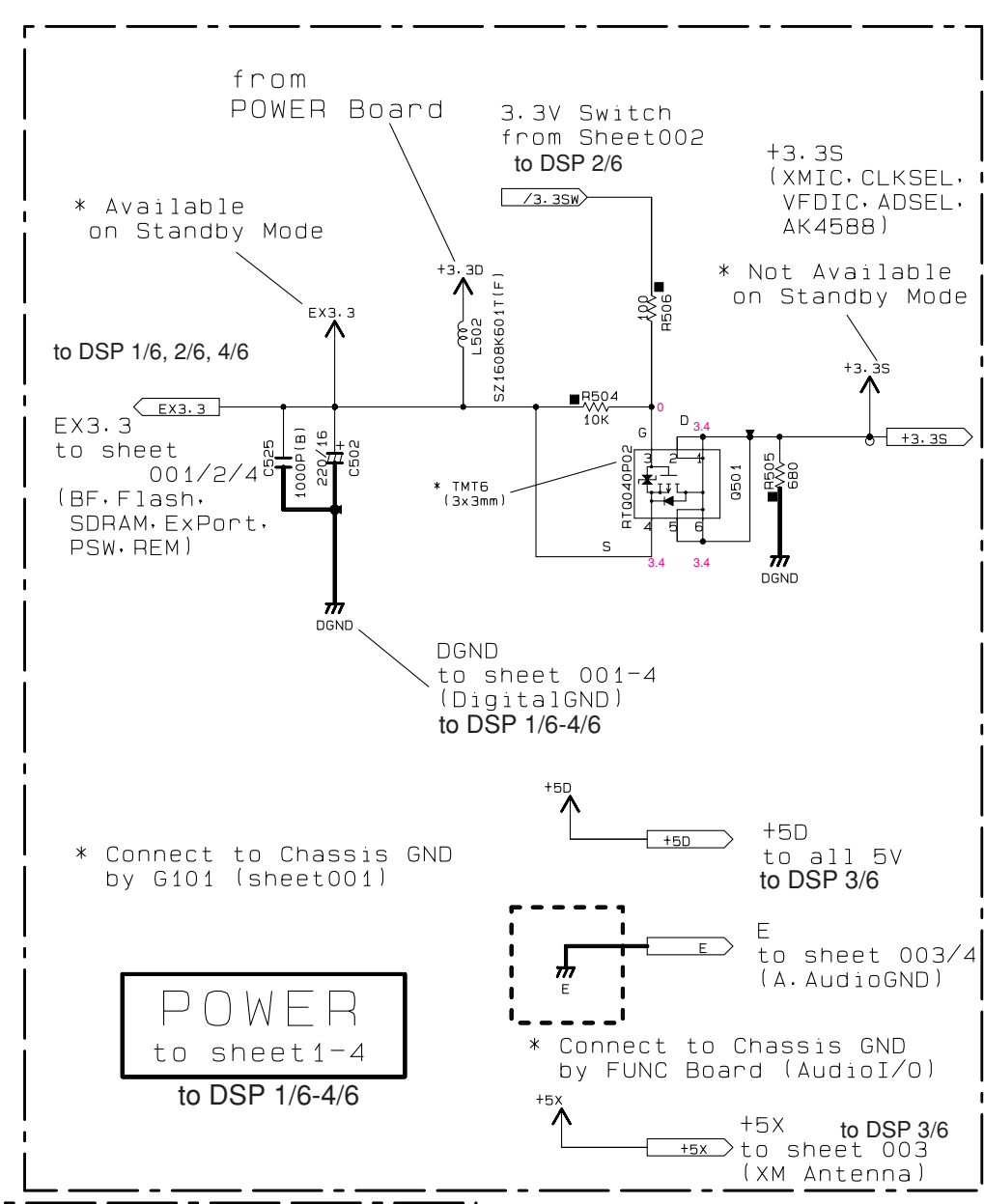
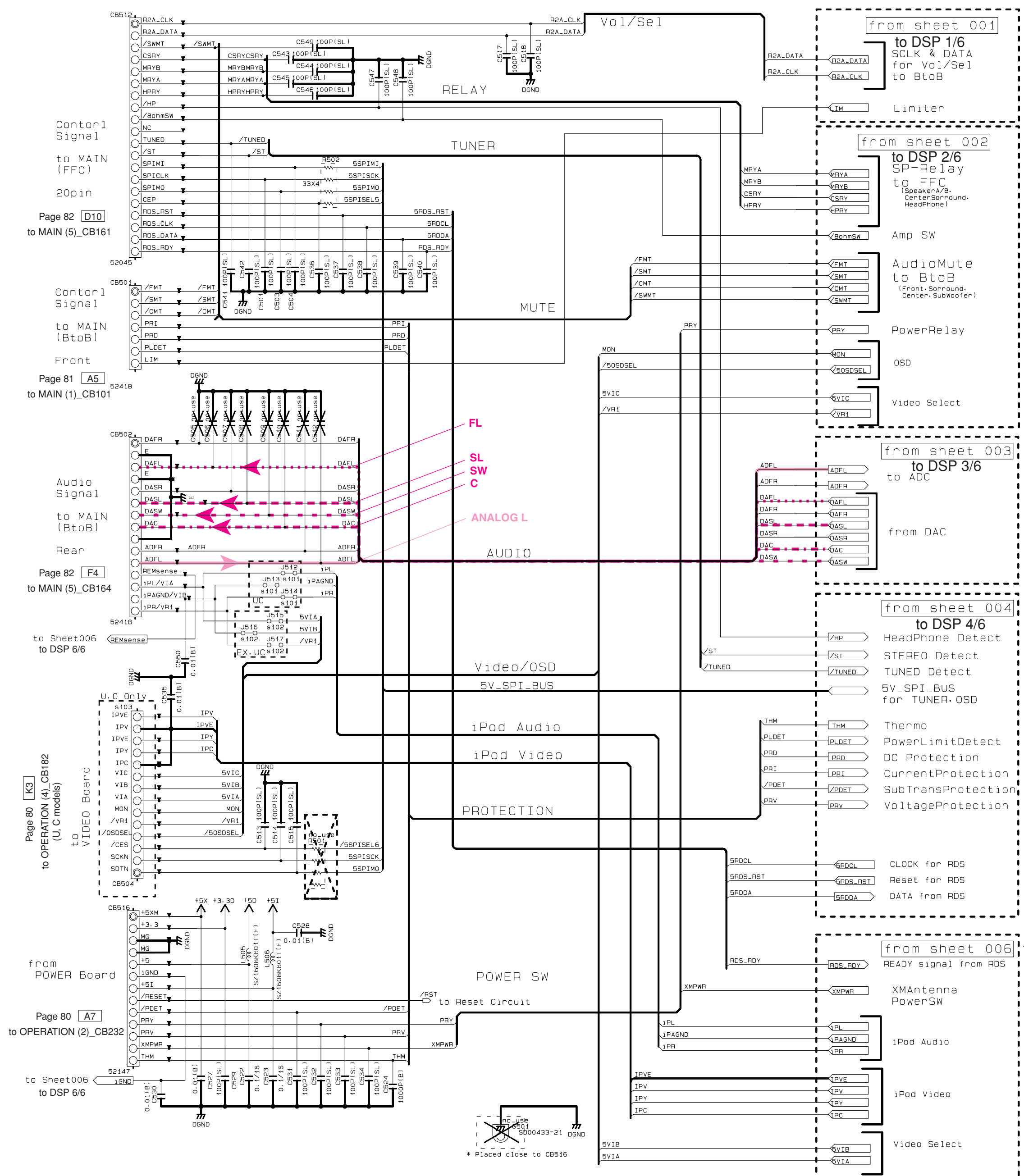
CAPACITOR

REMARKS	PARTS_NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	CERAMIC TUBULAR CAPACITOR
△	POLYESTER FILM CAPACITOR
▲	POLYSTYRENE FILM CAPACITOR
□	MICA CAPACITOR
⊙	POLYPROPYLENE FILM CAPACITOR
⊙	SEMICONDUCTIVE CERAMIC CAPACITOR
⊙	POLYPHENYLENE SULFIDE FILM CAPACITOR

NOIICE (mode1)  
(J)..... JAPAN  
(U)..... U.S.A  
(C)..... CANADA  
(R)..... GENERAL  
(T)..... CHINA  
(K)..... KOREA  
(A)..... AUSTRALIA  
(B)..... BRITISH  
(G)..... EUROPE  
(L)..... SINGAPORE  
(E)..... SOUTH EUROPE  
(V)..... TAIWAN  
(F)..... RUSSIAN

\* All voltages are measured with a 10MΩ/V DC electronic voltmeter.  
\* Components having special characteristics are marked ! and must be replaced with parts having specifications equal to those originally installed.  
\* Schematic diagram is subject to change without notice.

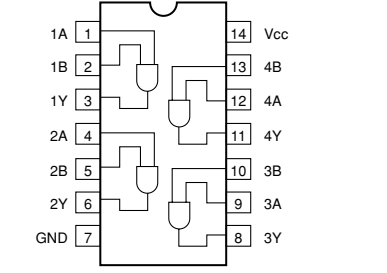
DSP 5/6



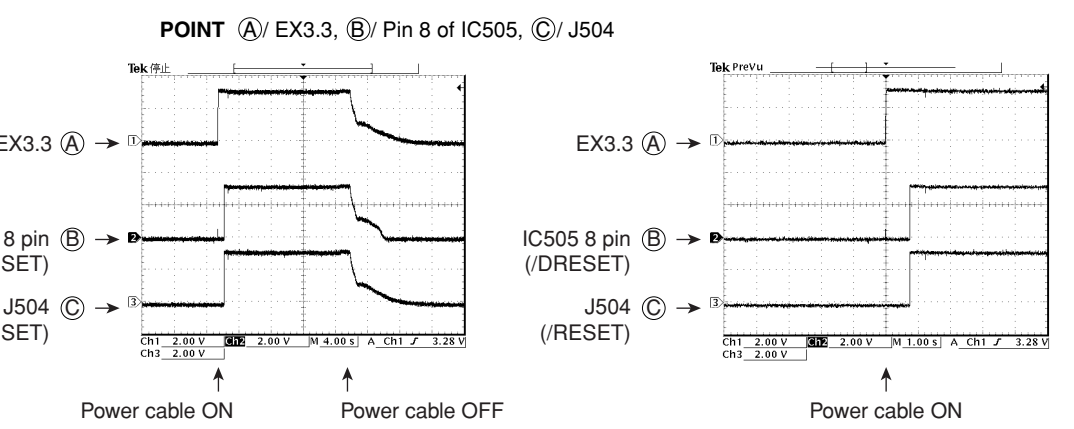
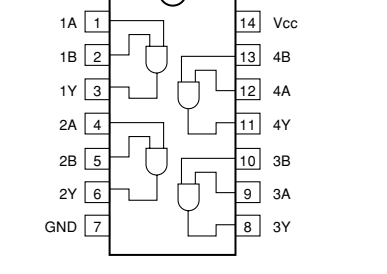
Destination Part List

EXX	LOC	UC	RL	T	KA	BOEF
s101	J514	RD35000	X	X	X	X
	J512	0				
	J513	0				
s102	J517	X	RD35000	0	RD35000	0
	J518	0				
	J519	0				
s103	CB504	VN39490	X	X	X	X
		52045				

IC501: SN74AHCT08PWR  
Quaduple 2-input positive-AND gates



IC505: SN74LV08APWR  
Quaduple 2-input positive-AND gate



RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
Z	CARBON FILM RESISTOR (P=10)
A	METAL OXIDE FILM RESISTOR
Δ	METAL FILM RESISTOR
□	METAL PLATE RESISTOR
⊞	FIRE PROOF CARBON FILM RESISTOR
⊞	CEMENT MOLDED RESISTOR
⊞	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	CERAMIC TUBULAR CAPACITOR
⊙	POLYESTER FILM CAPACITOR
⊙	POLYSTYRENE FILM CAPACITOR
⊙	MICA CAPACITOR
⊙	POLYPROPYLENE FILM CAPACITOR
⊙	SEMICONDUCTIVE CERAMIC CAPACITOR
⊙	POLYPHENYLENE SULFIDE FILM CAPACITOR

NOTICE (model)

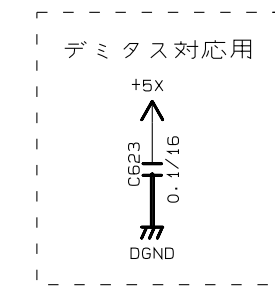
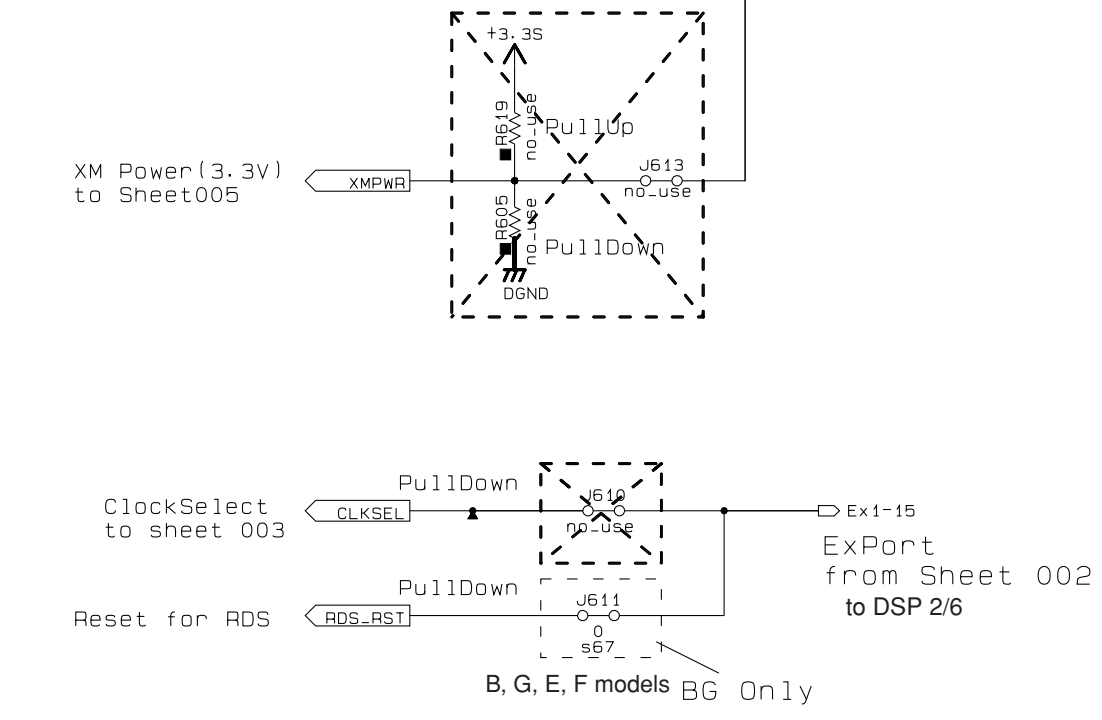
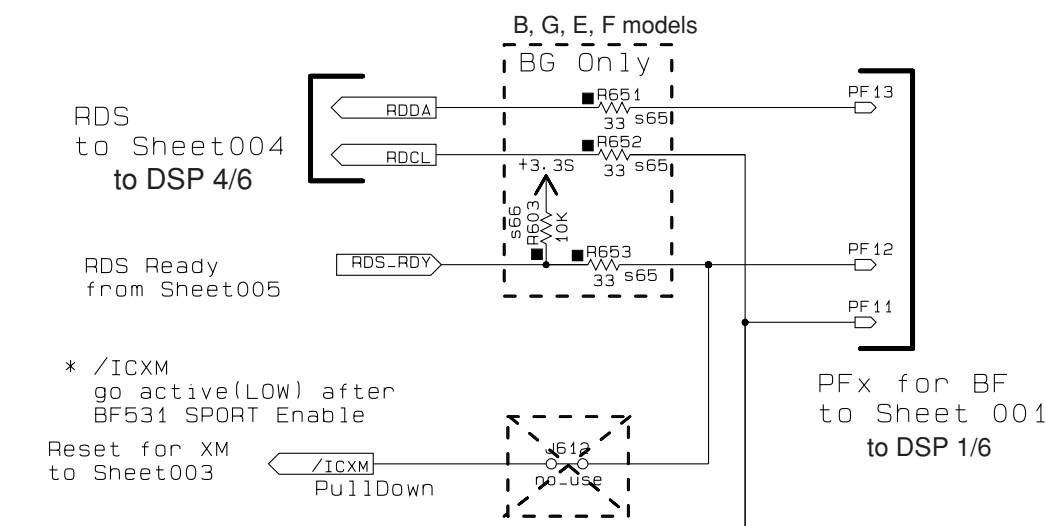
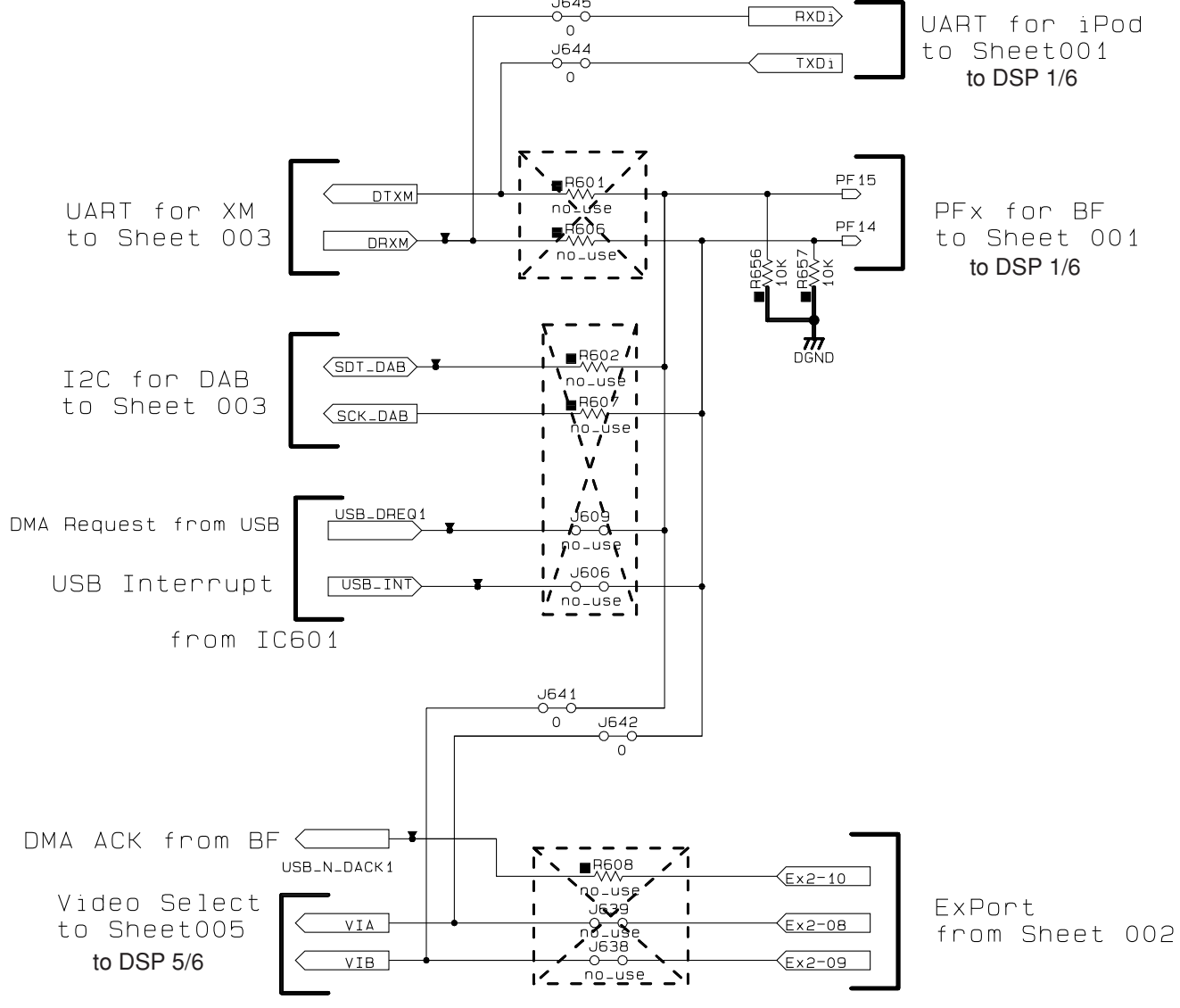
(J)..... JAPAN  
(U)..... U.S.A  
(C)..... CANADA  
(R)..... GENERAL  
(T)..... CHINA  
(K)..... KOREA  
(A)..... AUSTRALIA  
(B)..... BRITISH  
(G)..... EUROPE  
(L)..... SINGAPORE  
(E)..... SOUTH EUROPE  
(V)..... TAIWAN  
(F)..... RUSSIAN

\* All voltages are measured with a 10MQ/V DC electronic voltmeter.  
\* Components having special characteristics are marked !, and must be replaced with parts having specifications equal to those originally installed.  
\* Schematic diagram is subject to change without notice.



DSP 6/6

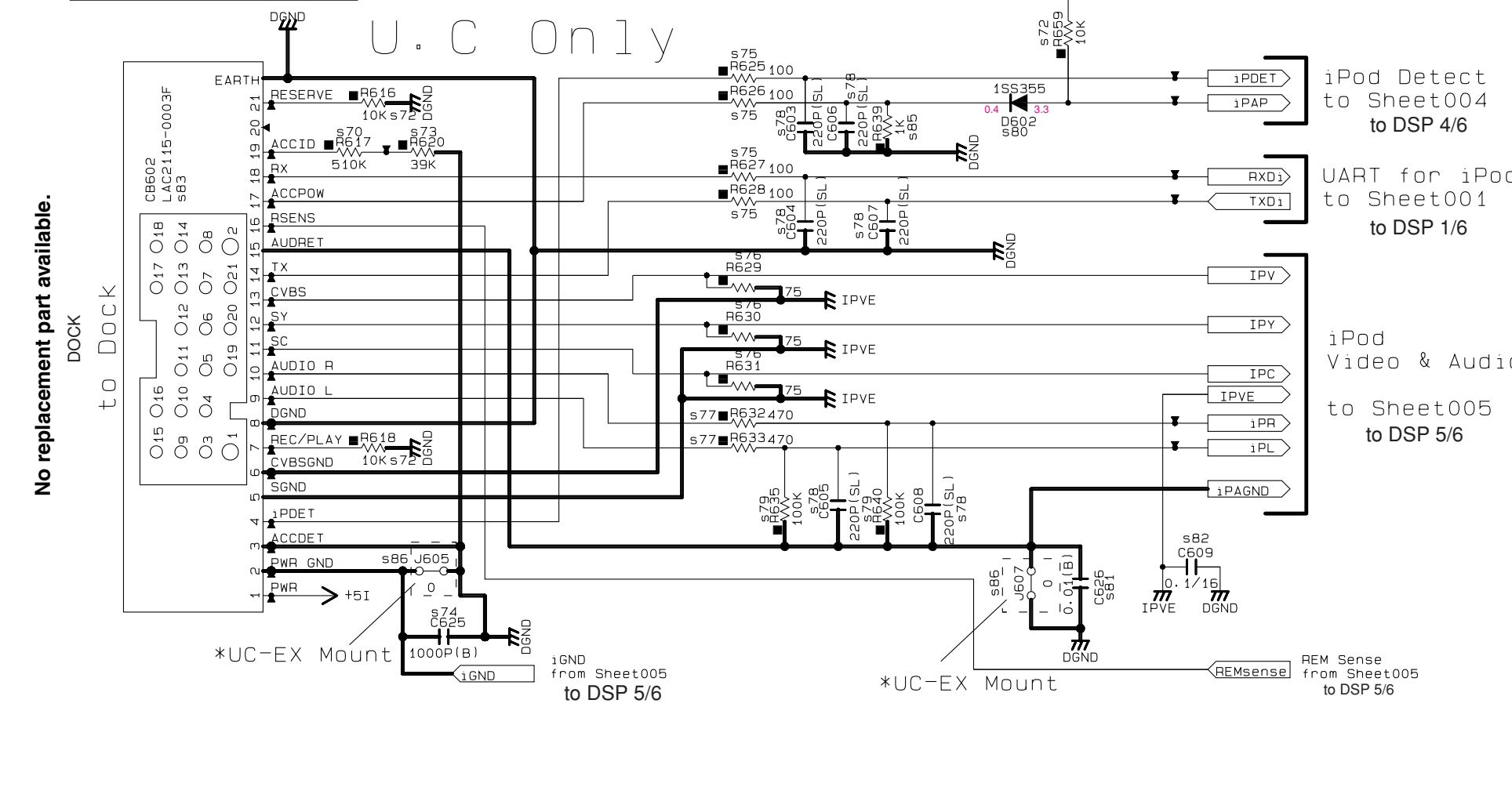
Destination Circuit



iPod

(U, C models)

18pin:Rx for uCOM  
14pin:Tx for uCOM



No replacement part available.

sXX	LOC	UC	RL	T	KA	BGEF	sXX	LOC	UC	RL	T	KA	BGEF
s65	R652	X	X	X	X		s77	R632	RD35547	X	X	X	X
	R653							R633	RD35547				
	R651								470				
s66	R603	X	X	X	X		s78	C606	US06222	X	X	X	X
								C607	220P(SL)				
								C608					
								C605					
								C604					
								C603					
s70	R617	RF45851	X	X	X		s79	R640	RD35810	X	X	X	X
		510K						R635	100K				
s72	R616	RD35710	X	X	X		s80	D602	VT33290	X	X	X	X
	R618	10K							155355				
	R620	39K					s81	C626	US06410	X	X	X	X
									0.01(F)				
s74	C625	US06310	X	X	X		s82	C609	US13910	X	X	X	X
		1000P(F)							0.1/16				
s75	R627	RD35510	X	X	X		s83	C602	MM45380	X	X	X	X
	R628	100							LAC215-0003F				
	R629	RD35475	X	X	X		s85	R639	RD35610	X	X	X	X
	R631	75							1K				
	R620						s86	J605	RD35000	RD35000	RD35000	RD35000	RD35000
								J607	0	0	0	0	0

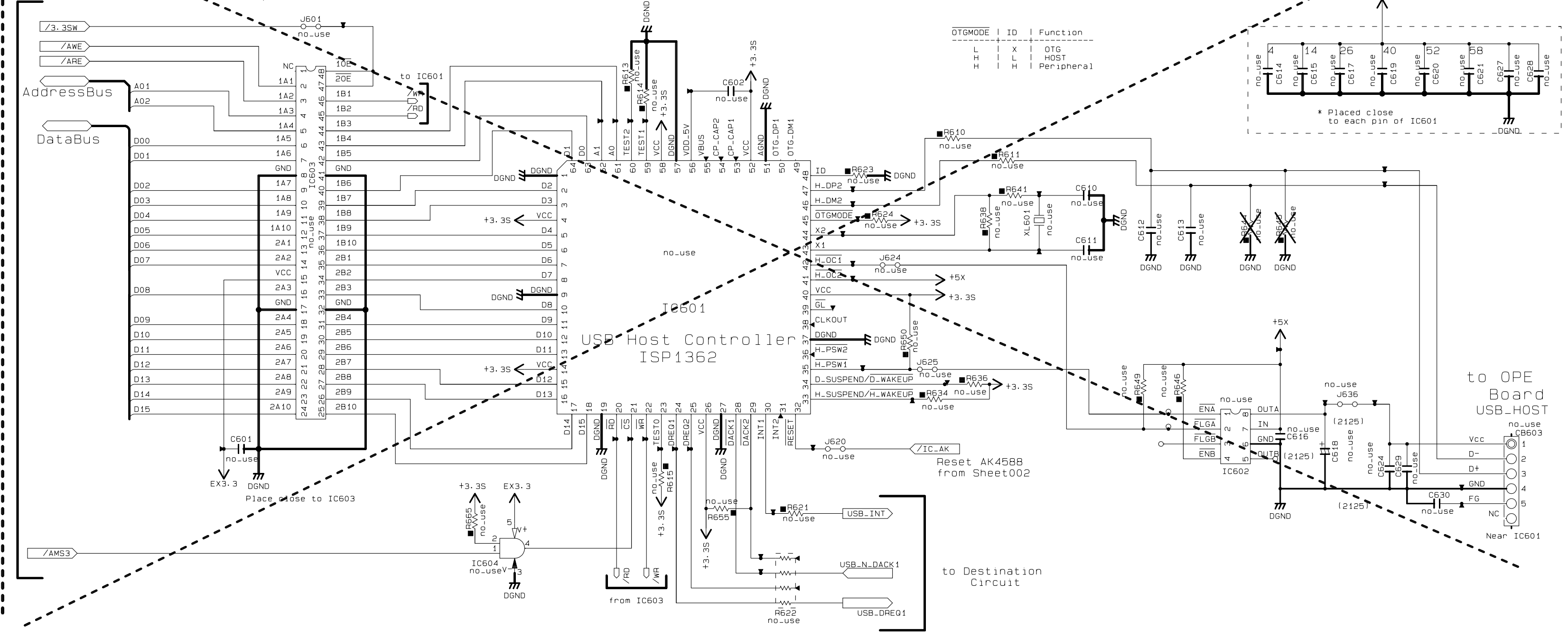
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	FILM FILM RESISTOR
⊠	METAL PLATE RESISTOR
⊞	FIRE PROOF CARBON FILM RESISTOR
⊞	CEMENT MOLDED RESISTOR
⊞	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊞	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
●	CERAMIC TUBULAR CAPACITOR
⊞	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
○	MICA CAPACITOR
⊞	POLYPROPYLENE FILM CAPACITOR
⊞	SEMICONDUCTIVE CERAMIC CAPACITOR
⊞	POLYPHENYLENE SULFIDE FILM CAPACITOR

NOTICE (model)

(J)..... JAPAN  
 (U)..... U.S.A  
 (C)..... CANADA  
 (A)..... GENERAL  
 (T)..... CHINA  
 (K)..... KOREA  
 (A)..... AUSTRALIA  
 (B)..... BRITISH  
 (G)..... EUROPE  
 (L)..... SINGAPORE  
 (E)..... SOUTH EUROPE  
 (V)..... TAIWAN  
 (F)..... RUSSIAN

USB



\* All voltages are measured with a 10MΩ/V DC electronic voltmeter.  
 \* Components having special characteristics are marked † and must be replaced with parts having specifications equal to those originally installed.  
 \* Schematic diagram is subject to change without notice.



OPERATION 1/2

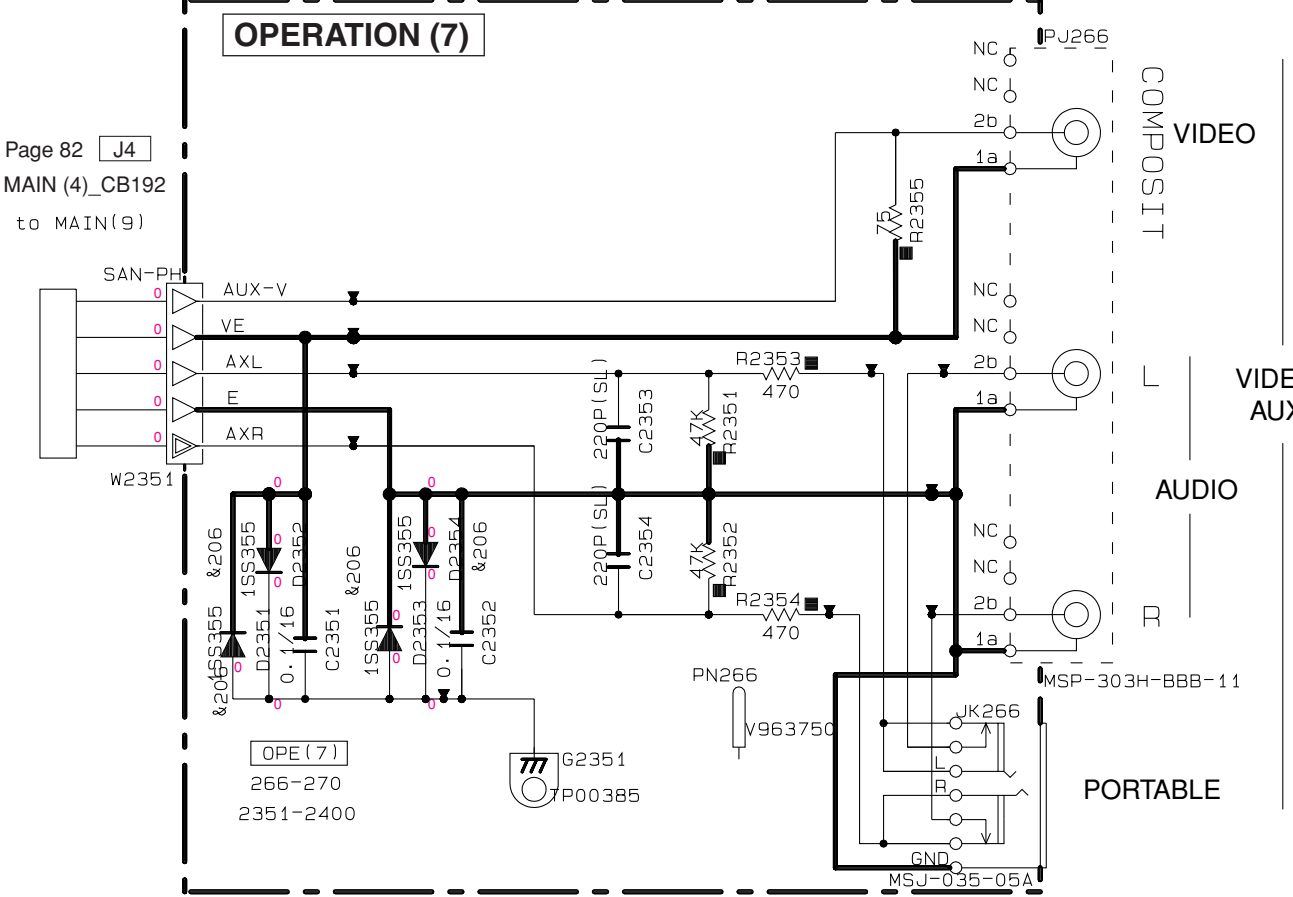
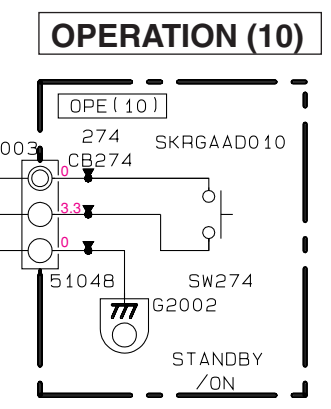
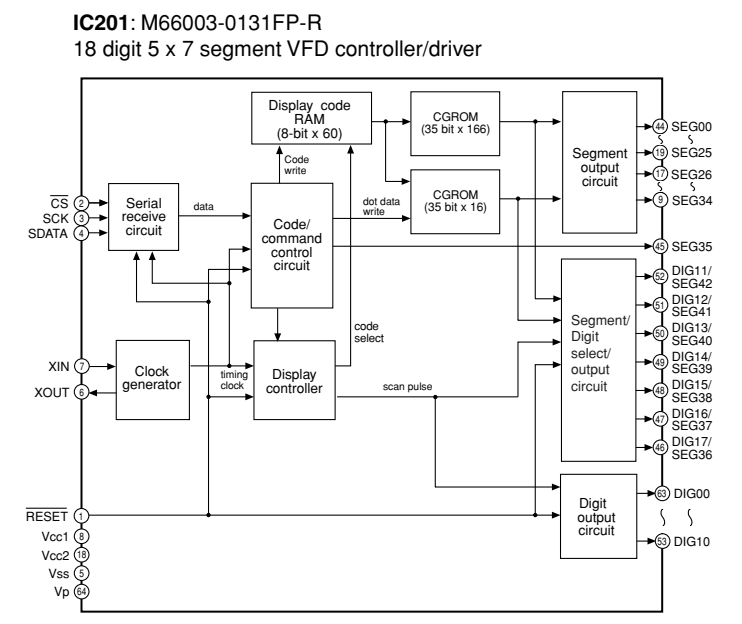
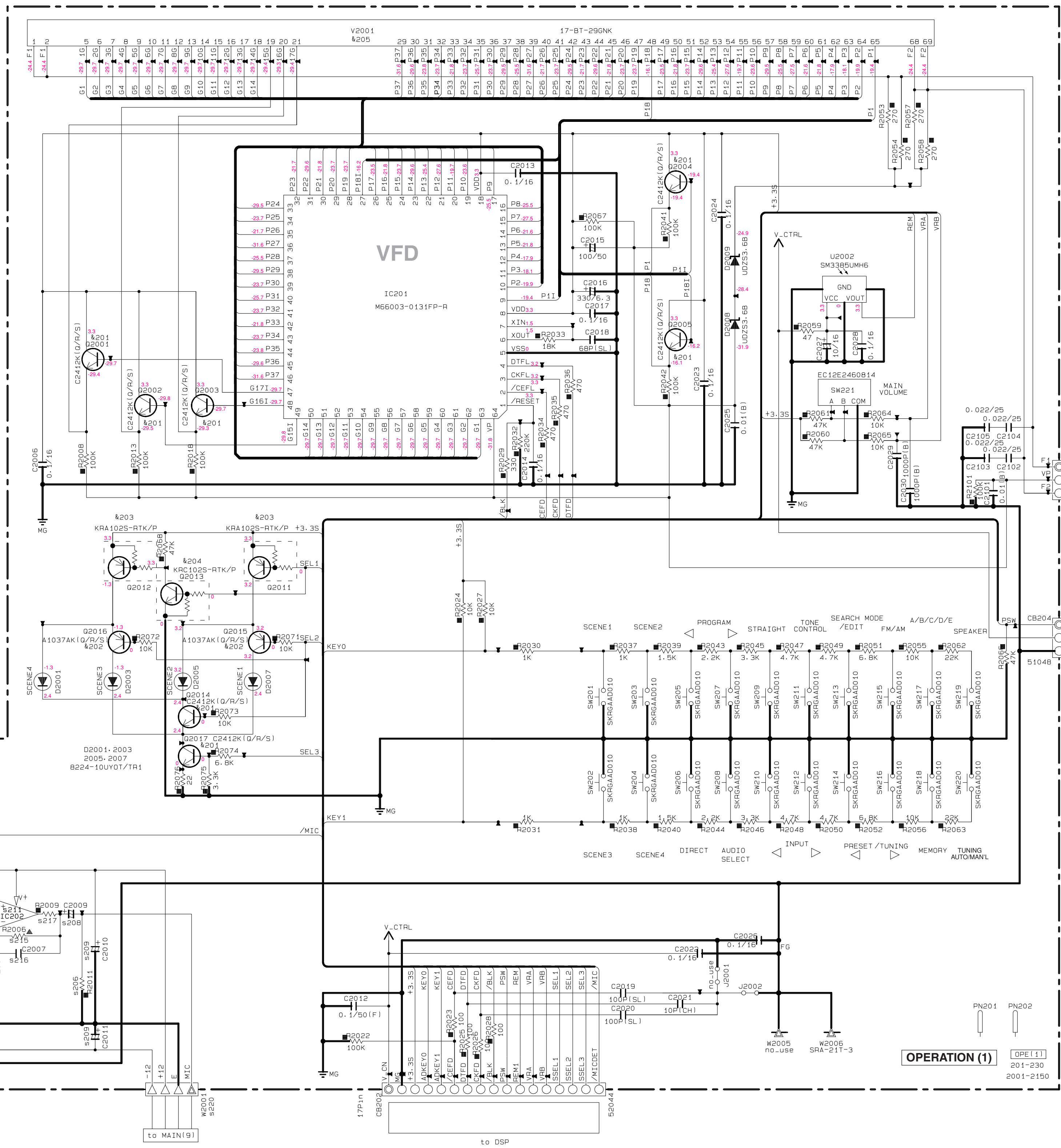
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☑	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊗	METAL PLATE RESISTOR
⊠	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊕	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
●	CERAMIC TUBULAR CAPACITOR
◎	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
⊖	POLYPROPYLENE FILM CAPACITOR
⊕	SEMICONDUCTIVE CERAMIC CAPACITOR
⊙	POLYPHENYLENE SULFIDE FILM CAPACITOR

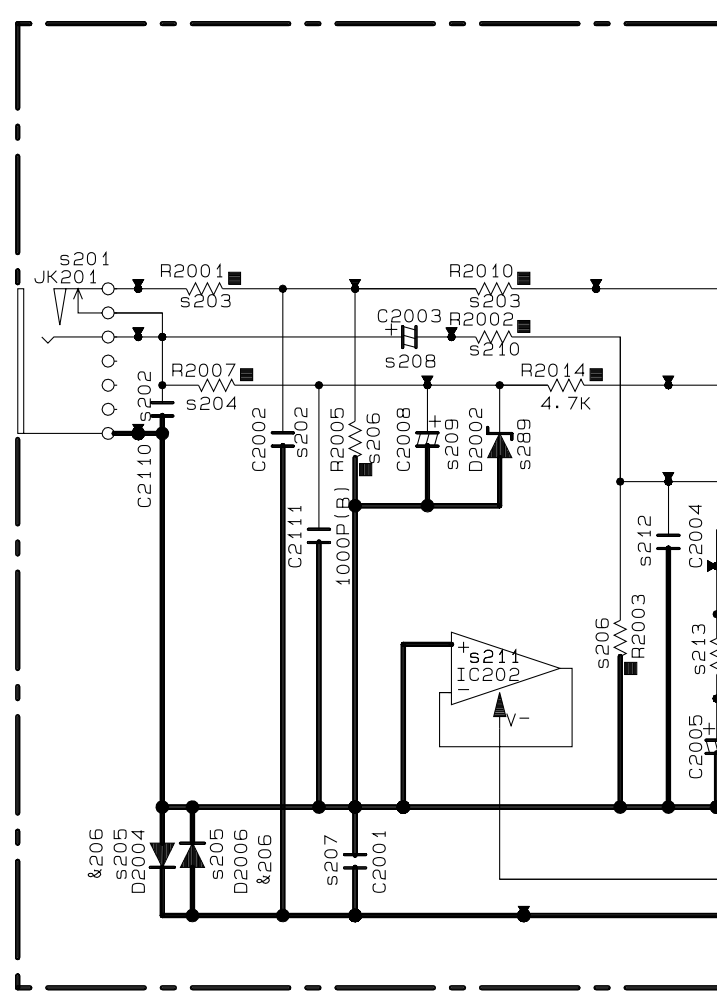
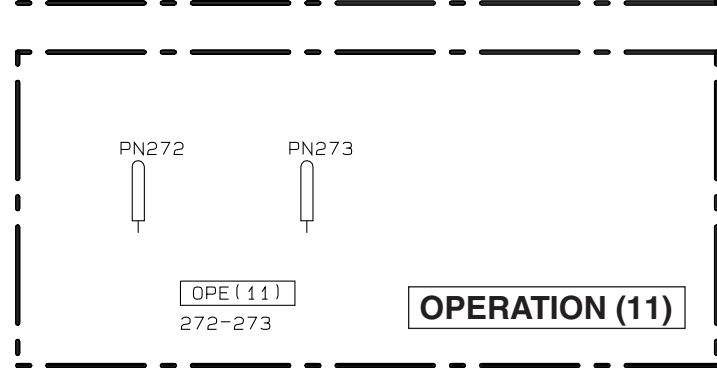
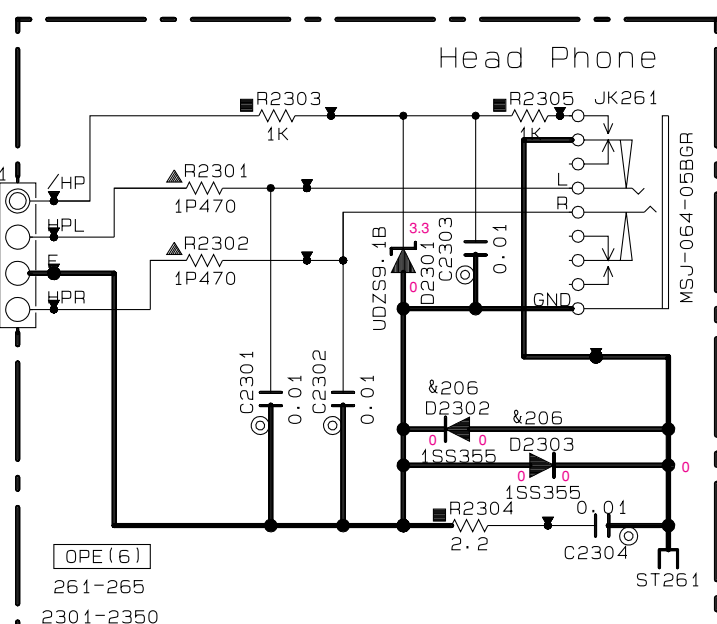
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
⊗201	02001-2005-2014-2017	25C2412K10/R/S 25D0601ARL/ABL10/R/S K1C38755-Y-GR-RTK/P
⊗202	02015-2016	25A1037AK10/R/S KTA1504S-Y-GR-RTK/P
⊗203	02011-2012	DTA114EKA KRA102S-RTK/P
⊗204	Q2013	DTA114EKA KRC102S-RTK/P
⊗205	V2001	17-B1-29GNK HNA-17MM04T
⊗206	Q2004-2006-2302-2303 Q2351-2354	1SS355 MA111

NOTICE (mode1)  
 (J)..... JAPAN  
 (U)..... U.S.A  
 (C)..... CANADA  
 (R)..... GENERAL  
 (T)..... CHINA  
 (K)..... KOREA  
 (A)..... AUSTRALIA  
 (B)..... BRITISH  
 (G)..... EUROPE  
 (L)..... SINGAPORE  
 (E)..... SOUTH EUROPE  
 (V)..... TAIWAN  
 (F)..... RUSSIAN



OPERATION (6)



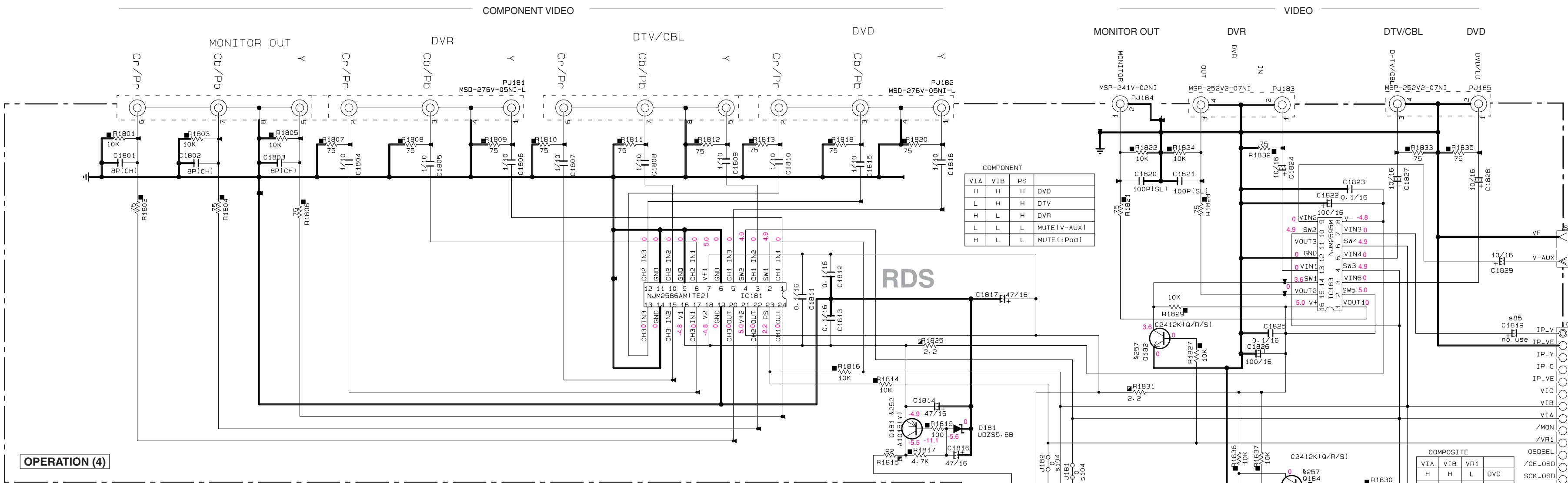
Page 82 [I4]  
to MAIN (4)\_CB191  
(R, K, A, B, G, E, F, L models)

Page 76 [C7]  
to DSP\_CB408

\* All voltages are measured with a 10MΩ/V DC electronic voltmeter.  
 \* Components having special characteristics are marked !, and must be replaced with parts having specifications equal to those originally installed.  
 \* Schematic diagram is subject to change without notice.

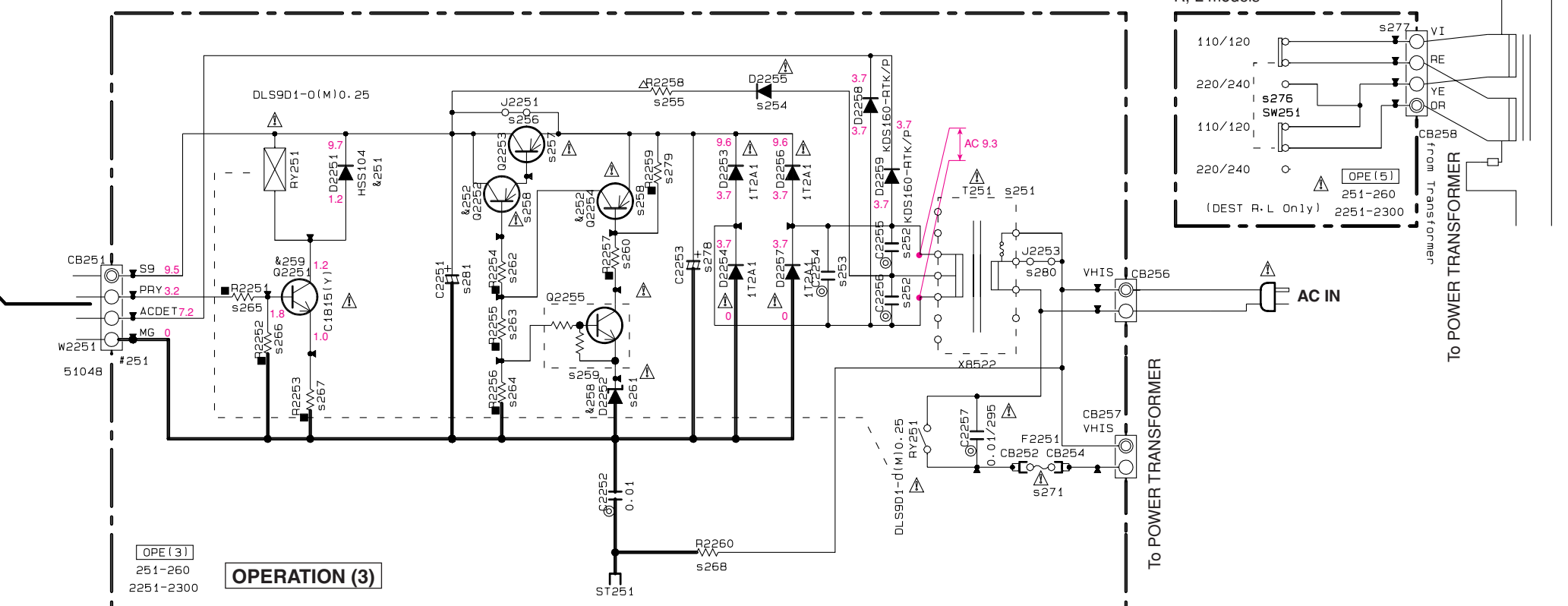
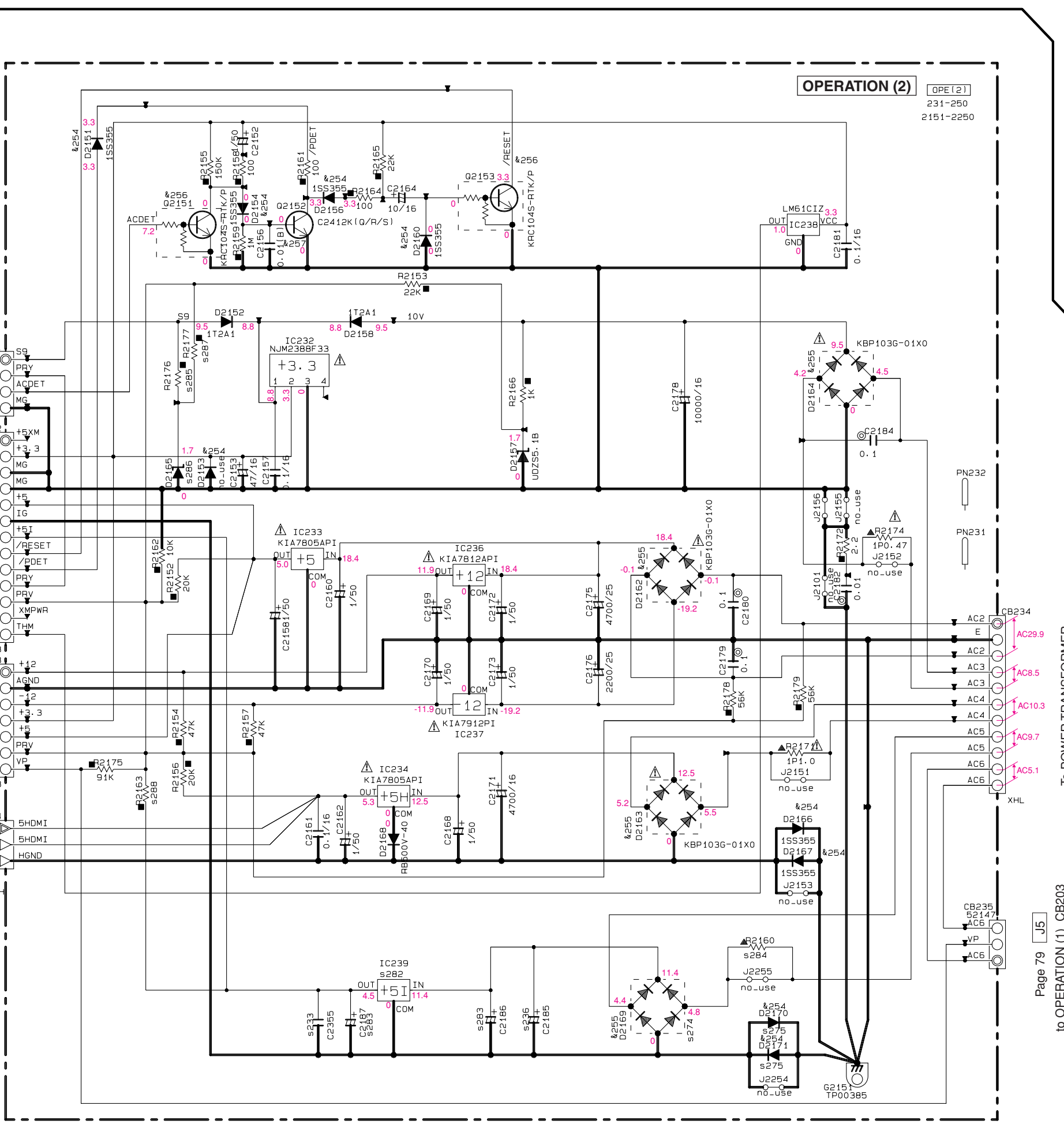


OPERATION 2/2



Destination Part List

SXX	LOC	UC	RL	T	KABEF
985	C1819	UR83710 10/16	X	X	X
9103	CB182	VF98220 22/16	X	X	X
9104	J181	RD35000 0	RD35000 0	RD35000 0	
9201	JK201	X	MSJ-2800C-AG	X	MSJ-2800C-AG
9202	C2002	X	US06310 100P/181	X	US06310 100P/181
9203	R2010	X	RD35810 1K	X	RD35810 1K
9204	R2007	X	RD35647 4.7K	X	RD35647 4.7K
9205	D2006	X	V133290 15S355	X	V133290 15S355
9206	R2005	X	RD35810 100K	X	RD35810 100K
9207	C2001	X	US06410 0.01181	X	US06410 0.01181
9208	C2003	X	UM39710 10/16	X	UM39710 10/16
9209	C2008	X	UM39722 22/16	X	UM39722 22/16
9210	R2002	X	RD35522 100K	X	RD35522 100K
9211	IC202	X	V133290 NLM466M	X	V133290 NLM466M
9212	C2004	X	US06210 100P/151	X	US06210 100P/151
9213	R2004	X	RF35547 470	X	RF35547 470
9214	C2005	X	UM39747 47/6.3	X	UM39747 47/6.3
9215	R2006	X	RF35712 12K	X	RF35712 12K



Destination Part List

SXX	LOC	UC	RL	T	KABEF
9216	C2007	X	US06133 33P/181	X	US06133 33P/181
9217	R2009	X	RD35682 8.2K	X	RD35682 8.2K
9220	W2001	X	MF40410	X	MF40410
9233	C2355	U513510 0.1/16	X	X	X
9236	C2185	UR73947 4700/16	X	X	X
9251	T251	X852140 X8521	X852240 X8523	X852340 X8523	X852340 X8523
9252	C2256	X	WJ60500 0.01	X	WJ60500 0.01
9253	C2254	X	WJ60500 0.01	X	WJ60500 0.01
9254	D2255	X	V999780 11241	X	V999780 11241
9255	R2258	X	V75790 2P47	X	V75790 2P47
9256	J2251	X	VN50000	X	VN50000
9257	D2253	X	U987260 A170815/171	X	U987260 A170815/171
9258	D2252	X	I10151 I10151/1	X	I10151 I10151/1
9259	D2255	X	KRC1045-RTK/P	X	KRC1045-RTK/P
9260	R2257	X	RD35747 47K	X	RD35747 47K
9261	D2252	X	V643700 WZ14-7A	X	V643700 WZ14-7A
9262	R2254	X	RD35610 1K	X	RD35610 1K
9263	R2255	X	RD35722 22K	X	RD35722 22K
9264	R2256	X	RD35647 4.7K	X	RD35647 4.7K

Destination Part List

SXX	LOC	UC	RL	T	KABEF
9265	R2251	X	RD35647 4.7K	RD35610 4.7K	RD35647 4.7K
9266	R2252	X	RD35810 100K	RD35810 100K	RD35810 100K
9267	R2253	X	RD35433 33	RD35447 47	RD35447 47
9268	R2260	X	V573000 1/2R2-2M	X	V573000 1/2R2-2M
9271	F2251	X	W93310 15AL250V	VV07170 T3.15AL250V	VV07170 T3.15AL250V
9274	D2169	X	W8510	X	X
9275	D2171	X	VT33290 15S355	X	X
9276	SK251	X	V207550 SL14-224MF	X	X
9277	CB258	X	Y937900 B4P75-VH	X	X
9278	C2253	X	UR87110 10/100	X	X
9279	R2259	X	RD35810 100K	X	X
9280	J2253	X	VN50000	X	VN50000
9281	C2251	X	UR74922 2200/25	UR74922 2200/25	UR74922 2200/25
9282	IC239	X	W492840 KIA7805API	X	X
9283	C2187	X	UR86510 1/50	X	X
9284	R2160	X	WJ60240 1P1.0	X	X
9285	R2176	X	RD35610 1K	RD35610 1K	RD35610 1K
9286	D2165	X	VU17190 UOZ55-1B	VU17190 UOZ55-1B	VU17190 UOZ55-1B
9287	R2177	X	RD35722 22K	RD35722 22K	RD35722 22K
9288	R2163	X	RD35720 20K	X	X
9289	D2002	X	VU17190 UOZ55-1B	X	VU17190 UOZ55-1B

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
◇	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
⊞	FIRE PROOF CARBON FILM RESISTOR
⊞	CEMENT MOLDED RESISTOR
⊞	SEMI VARIABLE RESISTOR
⊞	CHIP RESISTOR

CAPACITOR

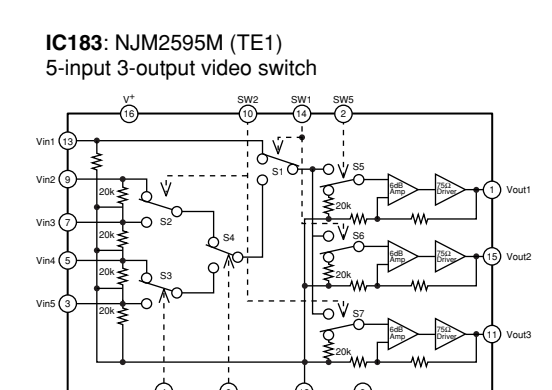
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊞	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊞	CERAMIC TUBULAR CAPACITOR
⊞	POLYESTER FILM CAPACITOR
⊞	POLYSTYRENE FILM CAPACITOR
⊞	MICA CAPACITOR
⊞	POLYPROPYLENE FILM CAPACITOR
⊞	SEMICONDUCTIVE CERAMIC CAPACITOR

Interchangeable Parts at Manufacture-Stage

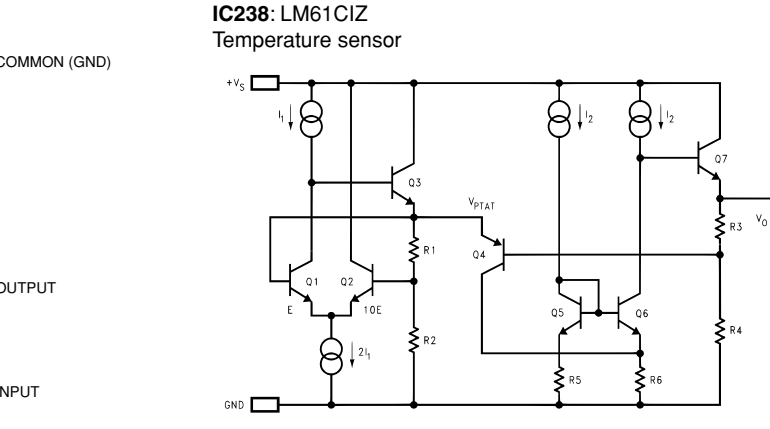
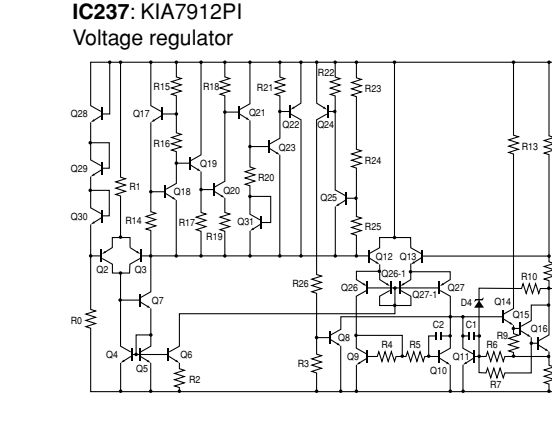
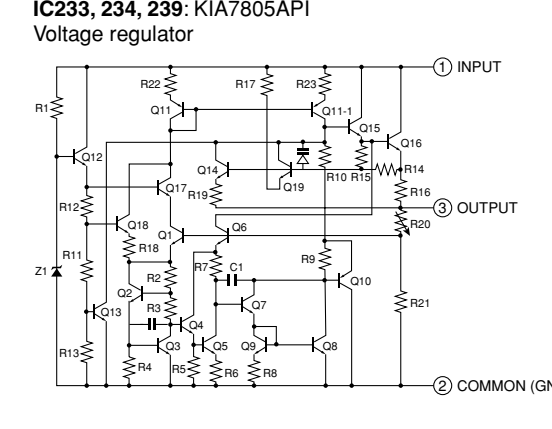
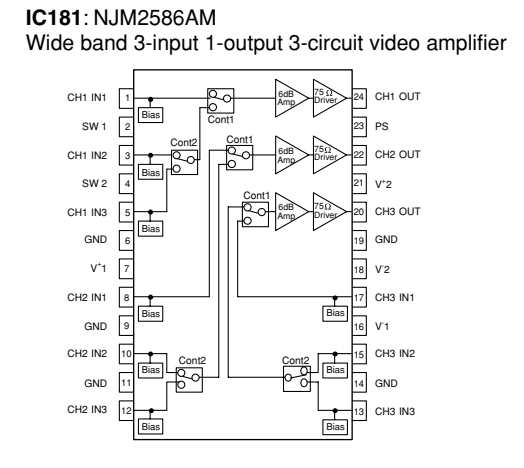
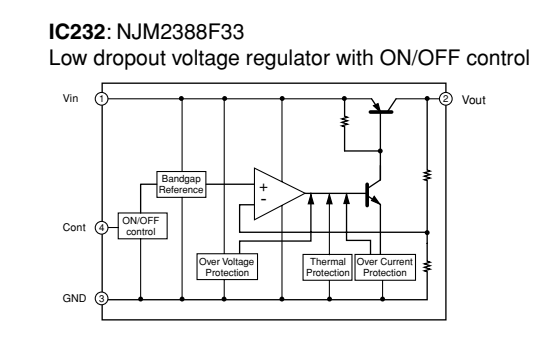
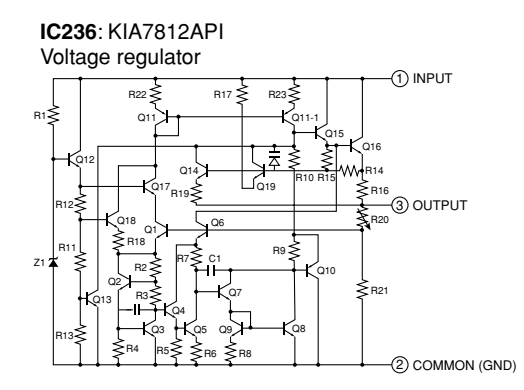
Mark	Reference Parts Number	Parts Name
4251	D2251	HSS104
		ISS133
		ISS176
4252	0181-2252-2254	2S410151V1
		KTA12661V1
		2S410151V
4254	Q2151-2154-2156-2160	1SS355
	2166-2167-2170-2171	MA111
4255	D2162-2164-2169	KBP1036-01X0
		RS103
4256	Q2151-2153	DT144EXA
		KRC1045-RTK/P
4257	0182-184-2152	MT2J4-7A
		GD2J4-7A
4258	D2252	MT2J4-7A
		GD2J4-7A
4259	Q2251	2SC18151V1
		K1C318B
		2SC1815V

NOTICE (model)

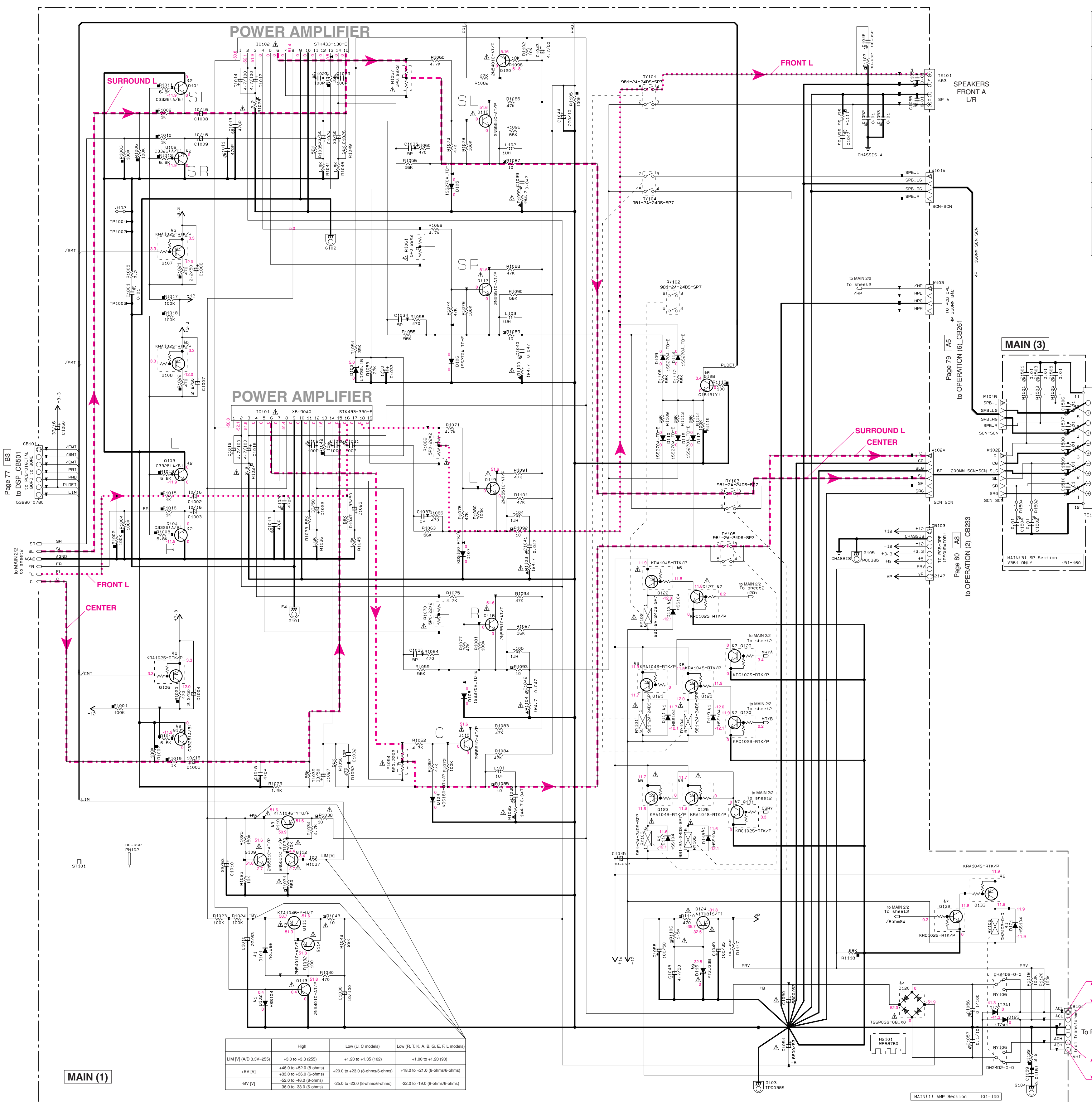
(J)..... JAPAN  
 (U)..... U.S.A  
 (C)..... CANADA  
 (R)..... GENERAL  
 (T)..... CHINA  
 (K)..... KOREA  
 (A)..... AUSTRALIA  
 (B)..... BRITISH  
 (G)..... EUROPE  
 (L)..... SINGAPORE  
 (E)..... SOUTH EUROPE  
 (V)..... TAIWAN  
 (F)..... RUSSIAN



\* All voltages are measured with a 10MΩ/V DC electronic voltmeter.  
 \* Components having special characteristics are marked with a triangle and must be replaced with parts having specifications equal to those originally installed.  
 \* Schematic diagram is subject to change without notice.







Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
41	D102-111-113 118-119-121	H55104 1S5133 1S5176
42	G101-105	2SC3361A/B1 2SC3361B1 2SC9981A/B1 2SD1938F1S/F1 2SD2794K
43	G10-111	2SR1274I/F/S1 2SR1665E/F1 KT41046-Y-U/D
44	D120	T56P030-08_X0 R5603M-B-C-J80
45	G106-108	KRA102S-RTK/P DTA114EXA
46	G121-123-125-126-133	KRA104S-RTK/P DTA144EXA
47	G127-129-132	KRC102S-RTK/P DTC114EXA
48	G128	2SC18151-Y1 KTC198B Y-AT
49	D116	HTZJ33B GDZJ33B

REMARKS

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
■	METAL PLATE RESISTOR
⊠	FIRE PROOF CARBON FILM RESISTOR
⊞	CEMENT MOLDED RESISTOR
⊚	SEMI VARIABLE RESISTOR
⊙	CHIP RESISTOR

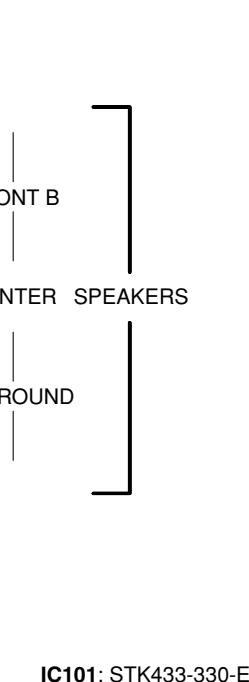
NOTICE (mode1)

(J)..... JAPAN  
(U)..... U.S.A  
(C)..... CANADA  
(R)..... CHINA  
(T)..... GENERAL  
(K)..... KOREA  
(A)..... AUSTRALIA  
(B)..... BRITISH  
(G)..... EUROPE  
(L)..... SINGAPORE  
(E)..... SOUTH EUROPE  
(V)..... TAIWAN  
(F)..... RUSSIAN

CAPACITOR

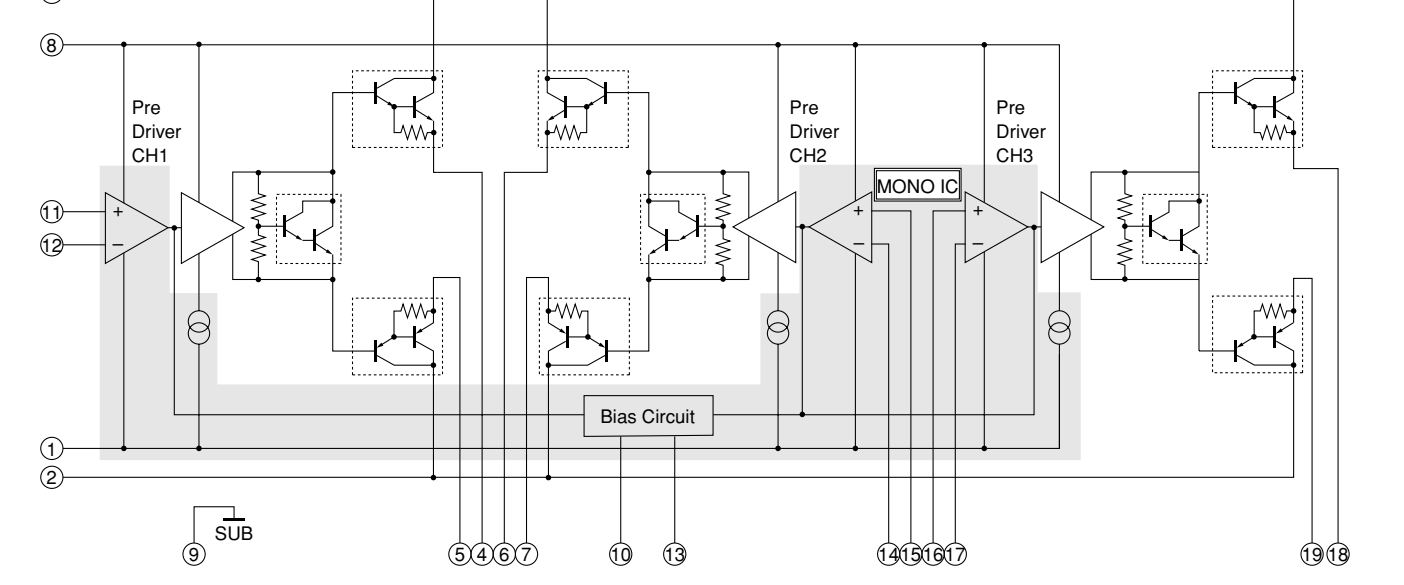
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
●	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
○	MICA CAPACITOR
○	POLYPROPYLENE FILM CAPACITOR
○	SEMICONDUCTIVE CERAMIC CAPACITOR
○	POLYPHENYLENE SULFIDE FILM CAPACITOR

MAIN (3)



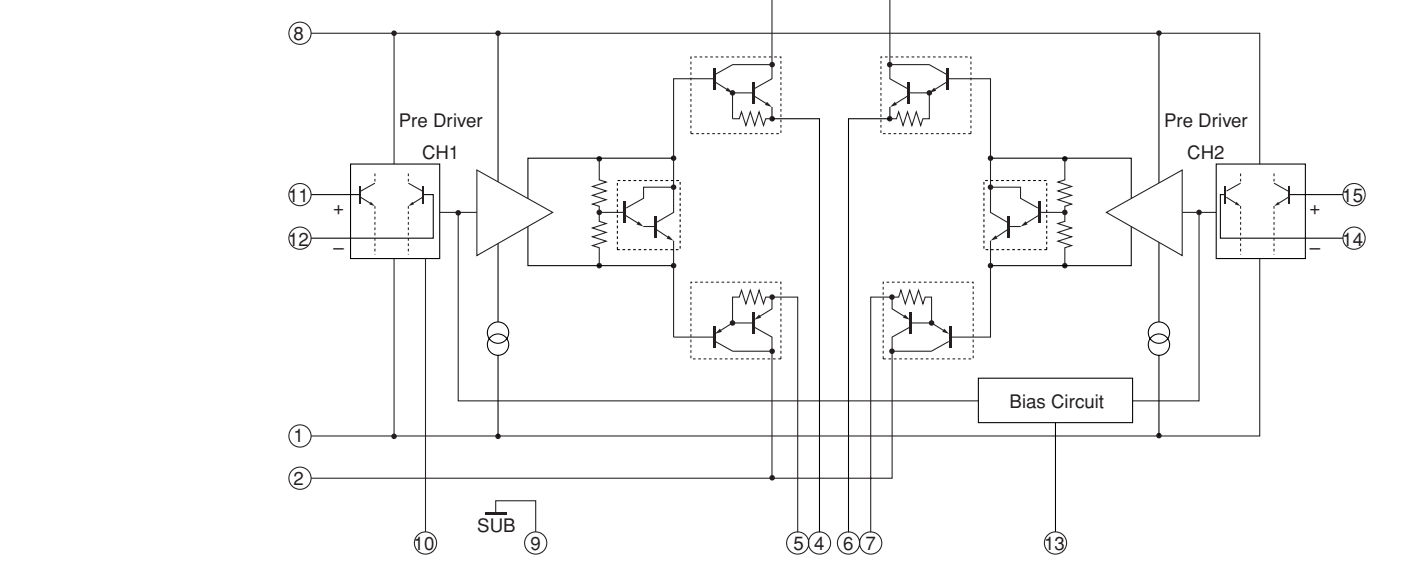
IC101: STK433-330-E

3-channel AF power amplifier, stand-by circuit built-in



IC102: STK433-130-E

2-channel AF power amplifier, stand-by circuit built-in

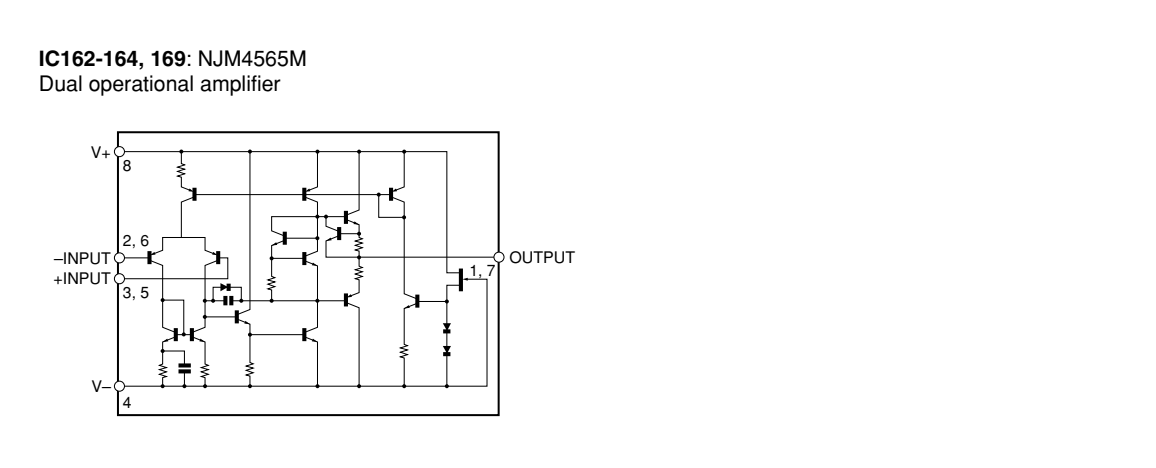
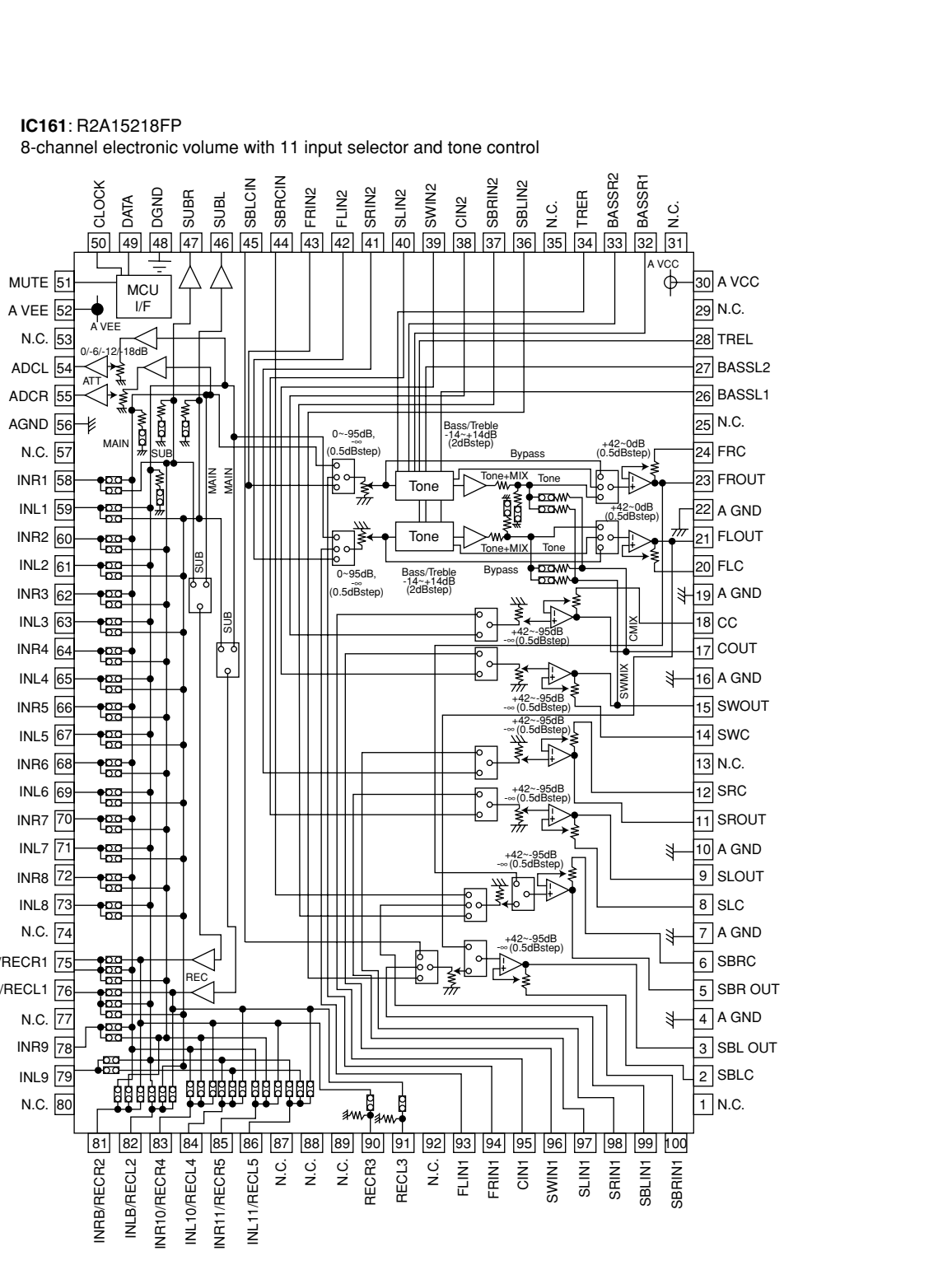
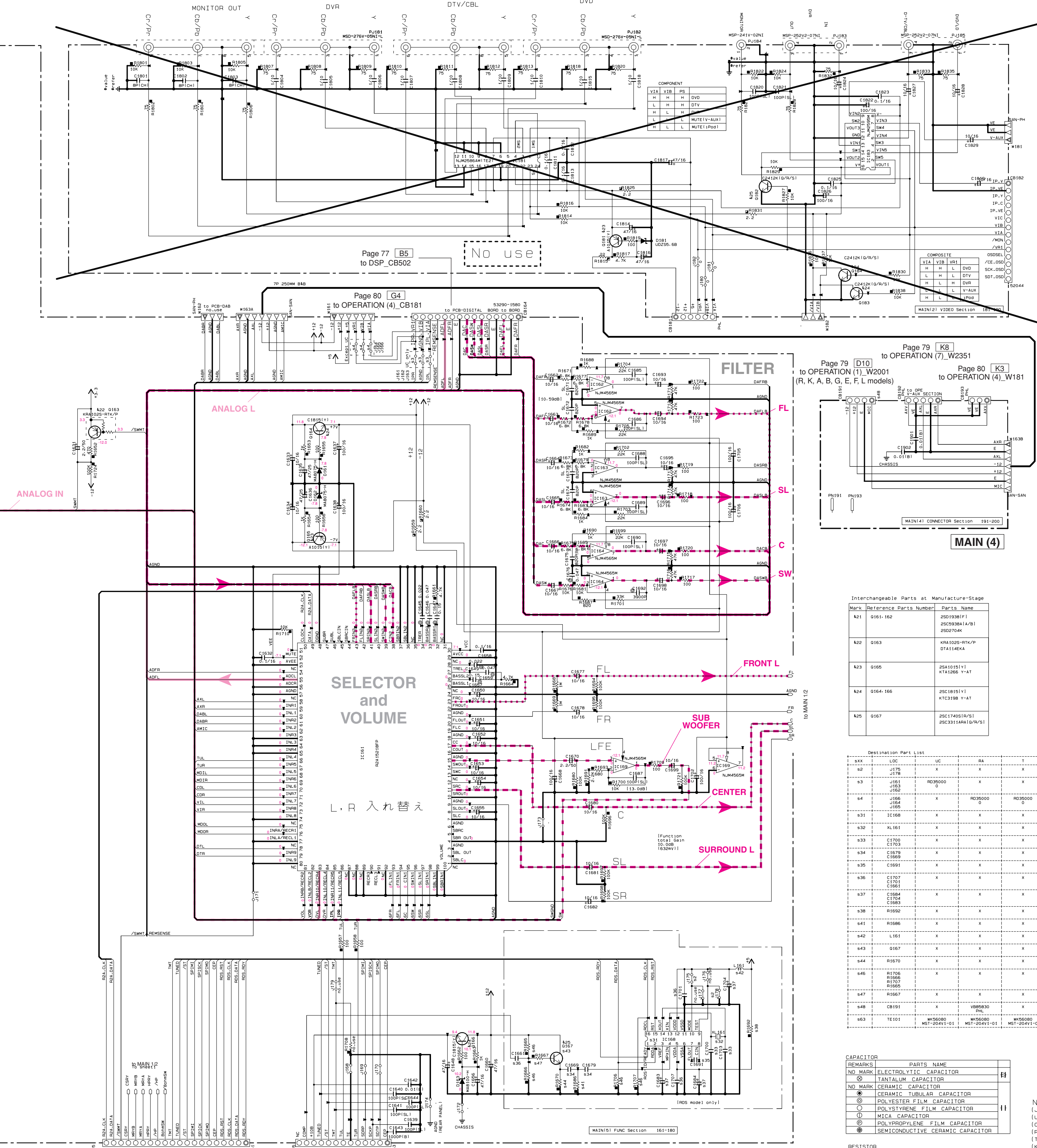
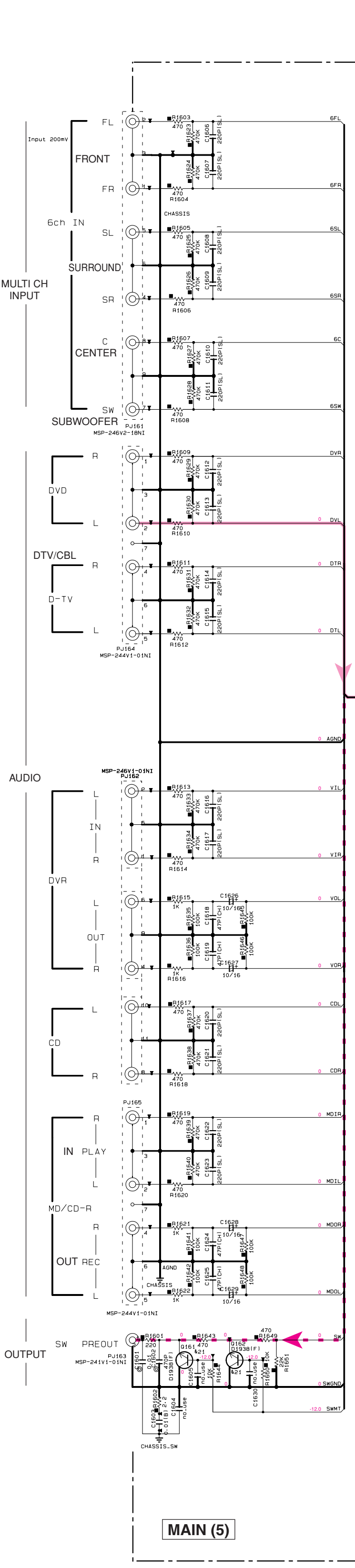


	High	Low (L, C models)	Low (R, T, K, A, B, G, E, F, L models)
LM [V] (A/D 3.3V±25%)	+3.0 to +3.3 (25%)	+1.20 to +1.35 (10%)	+1.00 to +1.20 (9%)
+8V [V]	+46.0 to +52.0 (8-ohms)	+20.0 to +23.0 (8-ohms/6-ohms)	+18.0 to +21.0 (8-ohms/6-ohms)
-8V [V]	+33.0 to +36.0 (8-ohms)	-25.0 to -23.0 (8-ohms/6-ohms)	-22.0 to -19.0 (8-ohms/6-ohms)
-8V [V]	-52.0 to -46.0 (8-ohms)	-25.0 to -23.0 (8-ohms/6-ohms)	-22.0 to -19.0 (8-ohms/6-ohms)

★ All voltages are measured with a 10MQ/V DC electronic voltmeter.  
 ★ Components having special characteristics are marked !, and must be replaced with parts having specifications equal to those originally installed.  
 ★ Schematic diagram is subject to change without notice.



MAIN 2/2



Interchangeable Parts at Manufacture Stage

Mark	Reference Parts Number	Parts Name
421	0161-162	2SD1938(I) 2SC9284(A/B) 2SD2704
422	0163	HA1029-RTK/P DT114EXA
423	0165	2SA1015(I) 2SA1286 V+AT
424	0164-166	2SC1815(I) 2SC1219B V+AT
425	0167	2SC1740(I) 2SC1314(B) 2SC1314(B)/R/S1

Destination Part List

MARK	LOC	UC	RA	T	NL	RDF
42	J776	X	X	X	X	RD9000
43	J161	RD30000	X	X	X	RD9000
44	J162	X	RD30000	RD30000	RD30000	RD9000
45	J169	X	X	X	X	RD9000
46	J170	X	X	X	X	RD9000
47	J171	X	X	X	X	RD9000
48	J172	X	X	X	X	RD9000
49	J173	X	X	X	X	RD9000
50	J174	X	X	X	X	RD9000
51	J175	X	X	X	X	RD9000
52	J176	X	X	X	X	RD9000
53	J177	X	X	X	X	RD9000
54	J178	X	X	X	X	RD9000
55	J179	X	X	X	X	RD9000
56	J180	X	X	X	X	RD9000
57	J181	X	X	X	X	RD9000
58	J182	X	X	X	X	RD9000
59	J183	X	X	X	X	RD9000
60	J184	X	X	X	X	RD9000
61	J185	X	X	X	X	RD9000
62	J186	X	X	X	X	RD9000
63	J187	X	X	X	X	RD9000
64	J188	X	X	X	X	RD9000
65	J189	X	X	X	X	RD9000
66	J190	X	X	X	X	RD9000
67	J191	X	X	X	X	RD9000
68	J192	X	X	X	X	RD9000
69	J193	X	X	X	X	RD9000
70	J194	X	X	X	X	RD9000
71	J195	X	X	X	X	RD9000
72	J196	X	X	X	X	RD9000
73	J197	X	X	X	X	RD9000
74	J198	X	X	X	X	RD9000
75	J199	X	X	X	X	RD9000
76	J200	X	X	X	X	RD9000
77	J201	X	X	X	X	RD9000
78	J202	X	X	X	X	RD9000
79	J203	X	X	X	X	RD9000
80	J204	X	X	X	X	RD9000
81	J205	X	X	X	X	RD9000
82	J206	X	X	X	X	RD9000
83	J207	X	X	X	X	RD9000
84	J208	X	X	X	X	RD9000
85	J209	X	X	X	X	RD9000
86	J210	X	X	X	X	RD9000
87	J211	X	X	X	X	RD9000
88	J212	X	X	X	X	RD9000
89	J213	X	X	X	X	RD9000
90	J214	X	X	X	X	RD9000
91	J215	X	X	X	X	RD9000
92	J216	X	X	X	X	RD9000
93	J217	X	X	X	X	RD9000
94	J218	X	X	X	X	RD9000
95	J219	X	X	X	X	RD9000
96	J220	X	X	X	X	RD9000
97	J221	X	X	X	X	RD9000
98	J222	X	X	X	X	RD9000
99	J223	X	X	X	X	RD9000
100	J224	X	X	X	X	RD9000

CAPACITOR

REMARKS	PARTS NAME	REMARKS
NO MARK	ELECTROLYTIC CAPACITOR	EF
NO MARK	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
NO MARK	CERAMIC TUBULAR CAPACITOR	
NO MARK	POLYESTER FILM CAPACITOR	
NO MARK	POLYSTYRENE FILM CAPACITOR	
NO MARK	MICA CAPACITOR	
NO MARK	POLYPROPYLENE FILM CAPACITOR	
NO MARK	SEMICONDUCTIVE CERAMIC CAPACITOR	

RESISTOR

REMARKS	PARTS NAME	REMARKS
NO MARK	CARBON FILM RESISTOR (P=5)	
NO MARK	CARBON FILM RESISTOR (P=10)	
NO MARK	METAL OXIDE FILM RESISTOR	
NO MARK	METAL FILM RESISTOR	
NO MARK	METAL PLATE RESISTOR	
NO MARK	FINE-PROOF CARBON FILM RESISTOR	
NO MARK	CEMENT MOLDED RESISTOR	
NO MARK	SEMI-VARIABLE RESISTOR	
NO MARK	CHIP RESISTOR	

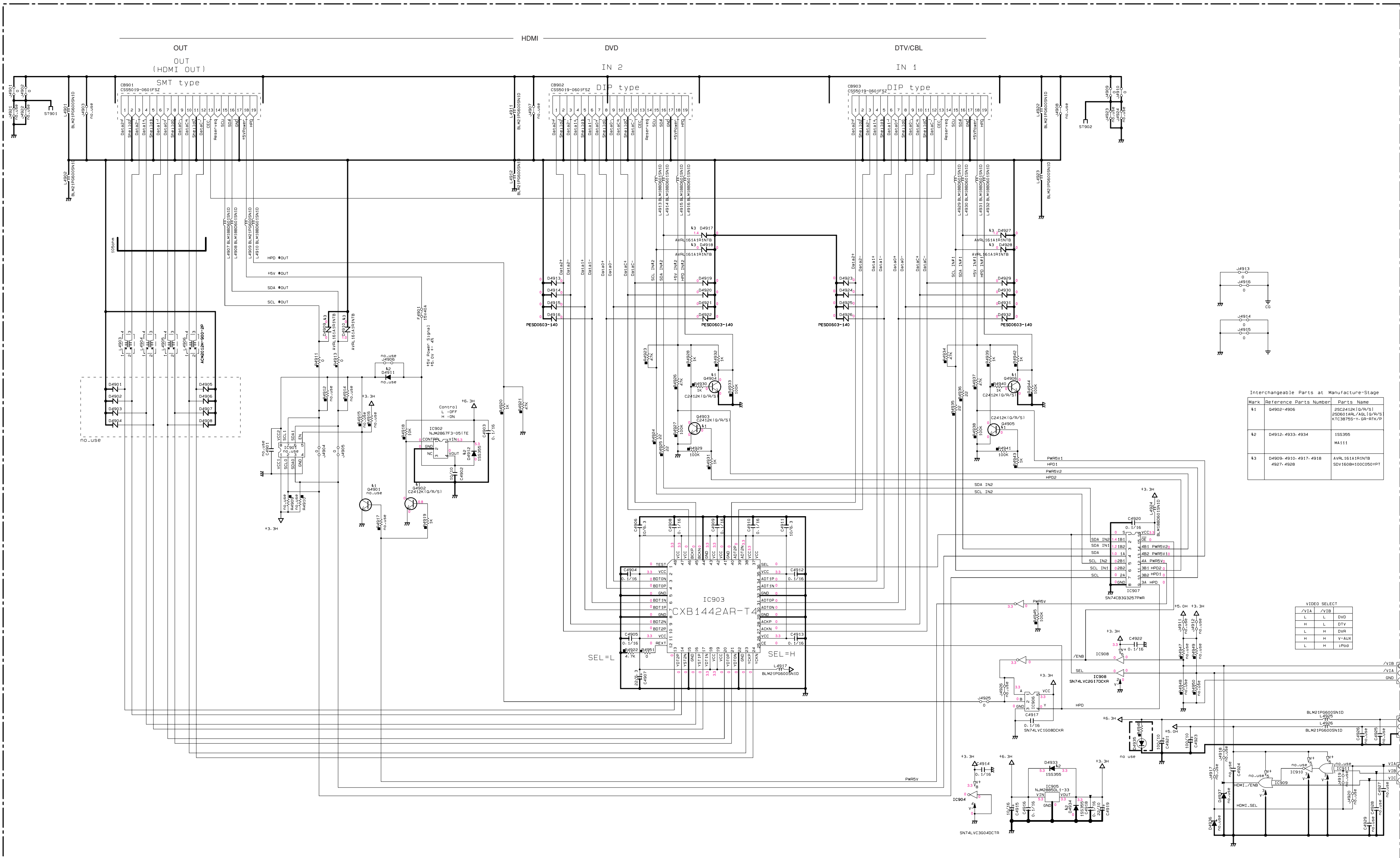
NOTICE (model)

(J) JAPAN  
(U) U.S.A  
(C) CANADA  
(R) GENERAL  
(T) CHINA  
(K) KOREA  
(A) AUSTRALIA  
(B) BRITISH  
(G) EUROPE  
(L) SINGAPORE  
(E) SOUTH EUROPE  
(V) TAIWAN  
(F) RUSSIAN

\* All voltages are measured with a 10MΩ/V DC electronic voltmeter.  
\* Components having special characteristics are marked with a triangle and must be replaced with parts having specifications equal to those originally installed.  
\* Schematic diagram is subject to change without notice.



HDMI



Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
41	04902-4906	ESC6412K1G/R/S1 P20601ARL700, 1G/R/S1 KTC30755-V, GR-REV.2P
42	04912-4933-4934	ISS395 MA111
43	04909-4910-4917-4918 4927-4928	AVL16141R1N17B SDV1609H100C050VPT

VIDEO SELECT

VIA	V1B	BVD
L	L	DTV
H	L	DTV
L	H	DVR
H	H	V-AUX
L	H	1P00

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to OPERATION (4)\_W182

Page 80 18  
to OPERATION (2)\_W2154

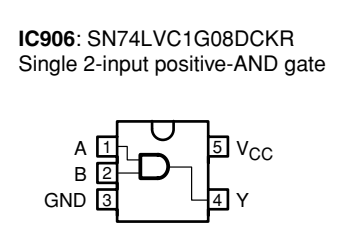
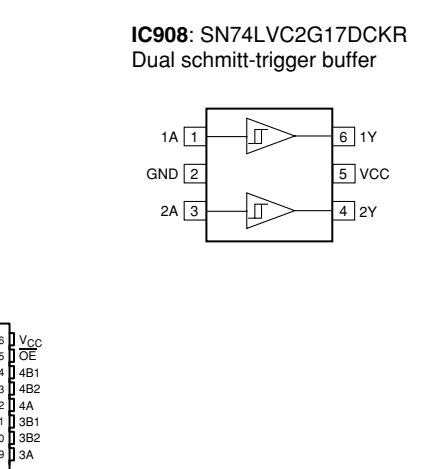
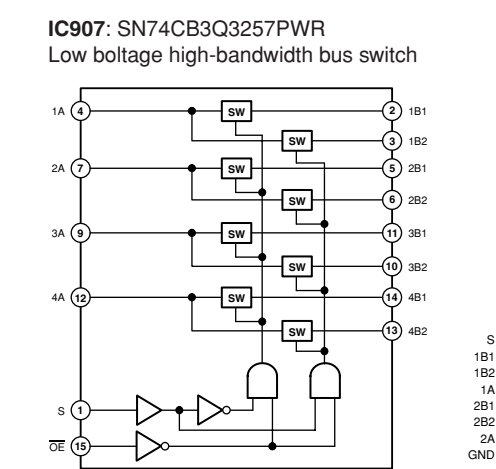
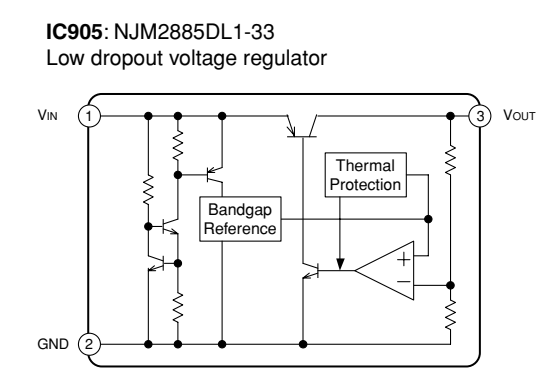
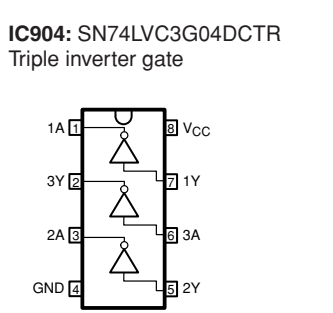
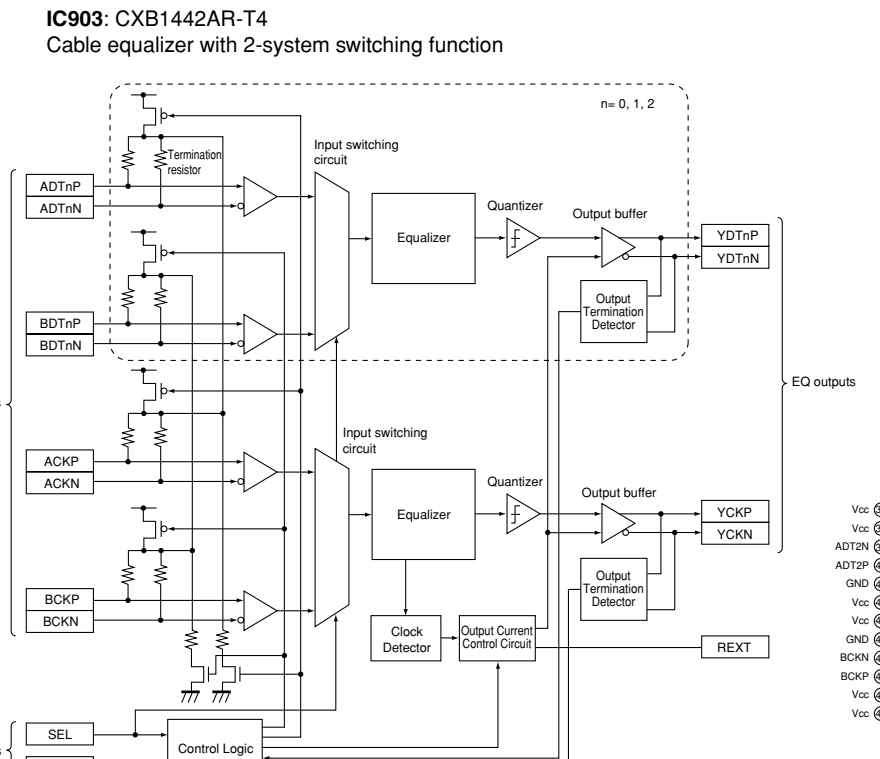
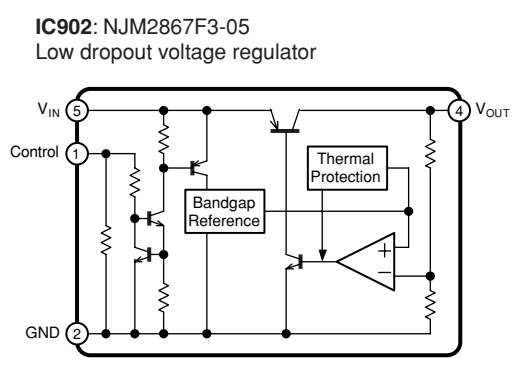
RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
⊠	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊞	METAL PLATE RESISTOR
⊞	FIRE-PROOF CARBON FILM RESISTOR
⊞	CEMENT MOLDED RESISTOR
⊞	SEMI-VARIABLE RESISTOR
⊞	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊞	TANTALUM CAPACITOR
⊞	CERAMIC CAPACITOR
⊞	CERAMIC TUBULAR CAPACITOR
⊞	POLYESTER FILM CAPACITOR
⊞	POLYSTYRENE FILM CAPACITOR
⊞	MICA CAPACITOR
⊞	POLYPROPYLENE FILM CAPACITOR
⊞	SEMICONDUCTIVE CERAMIC CAPACITOR
⊞	POLYPHENYLENE SULFIDE FILM CAPACITOR

NOTICE (mode1)  
(J)..... JAPAN  
(U)..... U.S.A  
(C)..... CANADA  
(R)..... GENERAL  
(T)..... CHINA  
(K)..... KOREA  
(A)..... AUSTRALIA  
(B)..... BRITISH  
(G)..... EUROPE  
(L)..... SINGAPORE  
(E)..... SOUTH EUROPE  
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