

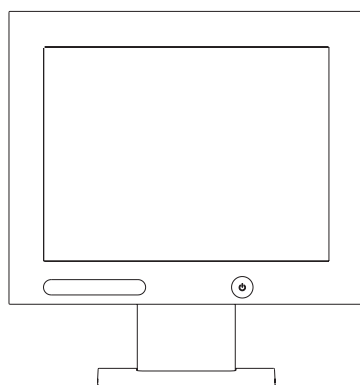
SAMSUNG

TFT-LCD MONITOR

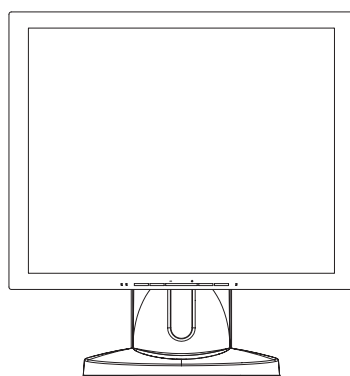
GH17P*/GH18P*

SERVICE Manual

TFT-LCD MONITOR



GH17P*



GH18P*

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Printed in Korea

P/N : BN68-00225L-00

<http://www.samsungmonitor.com> (SyncMaster Worldwide)

<http://www.samsung-monitor.com> (SyncMaster USA)

<http://www.sec.co.kr/monitor> (Korea)

1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1 Safety Precautions

1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC Power Jack before servicing.
3. When the chassis is operating, semiconductor heatsinks are potential shock hazards.

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the chassis and the anode lead. (Disconnect the AC line cord from the AC outlet.)
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.

3. Leakage Current Hot Check (Figure 1-1):

WARNING: Do not use an isolation transformer during this test.

Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

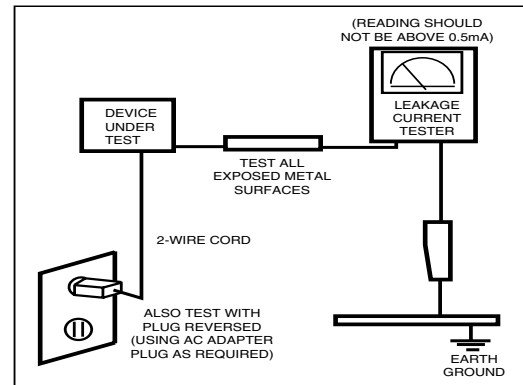


Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and / or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

WARNING: An electrolytic capacitor installed with the wrong polarity might explode.

Caution: Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.

Note: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
 - (a) remove or reinstall any component or assembly,
 - (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

2 Product Specifications

2-1 Specifications

Item	Description	
	GH17P*	GH18P*
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 0.264 pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 81 kHz (Automatic) Vertical : 56 Hz ~ 85 Hz	
Display Colors	16,7 Million colors	
Maximum Resolution	Horizontal : 1280 Pixels @ 81 kHz Vertical : 1024 Pixels @ 76 Hz	
Input Video Signal	Analog : 0.7 Vp-p ± 5% positive at 75 Ω, internally terminated Digital : TMDS-Digital	
Input Sync Signal	Type : Seperate H/V sync. SOG(Sync-On-Green), Composite, Automatic Synchronization without external switch Level : TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V)	
Maximum Pixel Clock rate	135 MHz	
Active Display Horizontal/Vertical	337.920 ± 3 mm 270.336 ± 3 mm	359.040 ± 3 mm 287.232 ± 3 mm
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz ± 3 Hz	
Power Consumption	40 W (max), 36W (normal)	
Dimensions Unit (W x D x H) Carton (W x D x H)	398.2 x 208.4 x 443.2 mm (15.7 x 8.2 x 17.4 inches) 505 x 521 x 259 mm (19.9 x 20.5 x 10.2 inches)	398.2 x 208.4 x 443.2 mm (15.7 x 8.2 x 17.4 inches) 482 x 262 x 512 mm (19.0 x 10.3 x 20.1 inches)
Weight (Net/Gross)	6.3 kg (13.88 lbs) / 8.0 kg (17.64 lbs)	5.8 kg (12.8 lbs) / 7.8 kg (17.2 lbs)
Environmental Considerations	Operating Temperature : 41°F ~ 95°F (5°C ~ 35°C) Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %	
- GH17P*/GH18P* comply with TC099 recommendations for reduced electromagnetic fields. - Designs and specifications are subject to change without prior notice.		

2-2 Pin Assignments

Pin No.	Sync Type	15-Pin D-Sub Signal Cable Connector		
		Separate	Composite	Sync-on-green
1		Red	Red	Red
2		Green	Green	Green + H/V Sync.
3		Blue	Blue	Blue
4		GND	GND	GND
5		GND (DDC Return)	GND (DDC Return)	GND (DDC Return)
6		GND-Red	GND-Red	GND-Red
7		GND-Green	GND-Green	GND-Green
8		GND-Blue	GND-Blue	GND-Blue
9		No Connection	No Connection	Not Used
10		GND-Sync./Self Test	GND-Sync./Self Test	GND-Sync./Self Test
11		GND	GND	GND
12		DDC Data	DDC Data	DDC Data
13		H-Sync.	H/V-Sync.	Not Used
14		V-Sync.	Not Used	Not Used
15		DDC Clock	DDC Clock	DDC Clock

Pin No.	Sync Type	24-Pin DVI-D(TMDS)		
1		Rx2-	13	No Connection
2		Rx2+	14	DDC Power Input (+5V)
3		GND	15	Self Raster
4		No Connection	16	Connection Signal Output (+5V)
5		No Connection	17	Rx0-
6		DDC Clock (SCL)	18	Rx0+
7		DDC Data (SDA)	19	GND
8		No Connection	20	No Connection
9		Rx1-	21	No Connection
10		Rx1+	22	GND
11		GND	23	RxC+
12		No Connection	24	RxC-

2-3 Timing Chart

This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

2-3-1 LCD Panel Mode : 1 mode

Timing No.	21
Originator	HP
Mode Name	1280/60Hz
Resolution (HxV)	1280x1024
HORIZONTAL	
Frequency	63.981kHz
Total time	11.852μs
Active time	9.259μs
Blank time	3.778μs
Border (L / R)	0.000μs
Data time	9.259μs
Front porch	0.444μs
Sync. width	1.037μs
Back porch	2.296μs
Sync. polarity	Positive
VERTICAL	
Frequency	60.020Hz
Total time	16.005ms
Active time	15.630ms
Blank time	0.375ms
Border (T / B)	0.000ms
Data time	15.630ms
Front porch	0.016ms
Sync. width	0.047ms
Back porch	0.594ms
Sync. polarity	Positive
Dot Clock	108.00MHz
Sync. Type	Separate
Scan Type	N/I

2-3-2 Supported Modes (1)

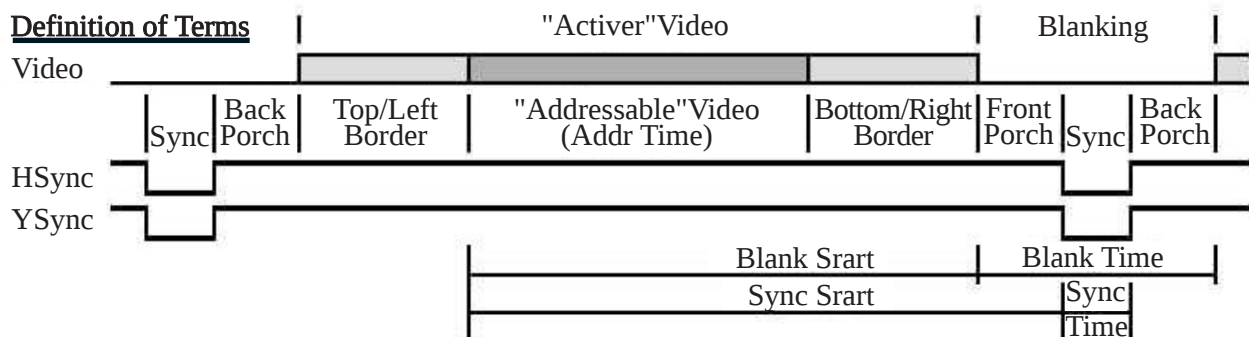
Timing No. Originator Mode Name Resolution (HxV)	1 IBM VGA1 640x350	2 IBM VGA2 720x400	3 IBM VGA3 640x480	11 VESA 640/72Hz 640x480	17 VESA 640/75Hz 640x480
HORIZONTAL					
Frequency	31.469kHz	31.469kHz	31.469kHz	37.861kHz	37.500kHz
Total time	31.778μs	31.777μs	31.778μs	26.413μs	26.667μs
Active time	26.058μs	26.058μs	26.058μs	20.825μs	20.317μs
Blank time	5.720μs	5.720μs	5.720μs	5.588μs	6.350μs
Border (L / R)	0.318μs	0.318μs	0.318μs	0.254μs	0.000μs
Data time	25.422μs	25.422μs	25.422μs	20.317μs	20.317μs
Front porch	0.318μs	0.318μs	0.318μs	0.508μs	0.508μs
Sync. width	3.813μs	3.813μs	3.813μs	1.270μs	2.032μs
Back porch	1.589μs	1.589μs	1.589μs	3.810μs	3.810μs
Sync. polarity	Positive	Negative	Negative	Negative	Negative
VERTICAL					
Frequency	70.086Hz	70.087Hz	59.940Hz	72.809Hz	75.000Hz
Total time	14.268ms	14.268ms	16.683ms	13.735ms	13.333ms
Active time	11.504ms	13.155ms	15.761ms	13.100ms	12.800ms
Blank time	2.764ms	1.113ms	0.922ms	0.635ms	0.533ms
Border (T / B)	0.191ms	0.222ms	0.254ms	0.211ms	0.000ms
Data time	11.122ms	12.711ms	15.253ms	12.678ms	12.800ms
Front porch	0.985ms	0.191ms	0.064ms	0.026ms	0.027ms
Sync. width	0.064ms	0.064ms	0.064ms	0.079ms	0.080ms
Back porch	1.716ms	0.858ms	0.794ms	0.528ms	0.427ms
Sync. polarity	Negative	Positive	Negative	Negative	Negative
Dot Clock	25.175MHz	28.322MHz	25.175MHz	31.500MHz	31.500MHz
Sync. Type	Separate	Separate	Separate	Separate	Separate
Scan Type	N/I	N/I	N/I	N/I	N/I

2-3-2 Supported Modes (2)

Timing No. Originator Mode Name Resolution (HxV)	42 VESA 640/85Hz 640x480	32 MAC 640/67Hz 640x480	33 MAC 832/75Hz 832x624	12 VESA 800/56Hz 800x600	13 VESA 800/60Hz 800x600
HORIZONTAL Frequency Total time Active time Blank time Border (L / R) Data time Front porch Sync. width Back porch Sync. polarity	43.269kHz 23.111µs 17.778µs 5.333µs 0.000µs 17.778µs 1.556µs 1.556µs 2.222µs Negative	35.000kHz 28.571µs 21.164µs 7.407µs 0.000µs 21.164µs 2.116µs 2.116µs 3.175µs Negative	49.726kHz 20.110µs 14.524µs 5.586µs 0.000µs 14.524µs 0.559µs 1.117µs 3.910µs Negative	35.156kHz 28.444µs 22.222µs 6.222µs 0.000µs 22.222µs 0.667µs 2.000µs 3.556µs Positive or Negative	37.879kHz 26.400µs 20.000µs 6.400µs 0.000µs 20.000µs 1.000µs 3.200µs 2.200µs Positive
VERTICAL Frequency Total time Active time Blank time Border (T / B) Data time Front porch Sync. width Back porch Sync. polarity	85.008Hz 11.764ms 11.093ms 0.671ms 0.000ms 11.093ms 0.023ms 0.069ms 0.578ms Negative	66.667Hz 15.000ms 13.714ms 1.286ms 0.000ms 13.714ms 0.086ms 0.086ms 1.114ms Negative	74.551Hz 13.414ms 12.549ms 0.865ms 0.000ms 12.549ms 0.020ms 0.060ms 0.784ms Negative	56.250Hz 17.778ms 17.067ms 0.711ms 0.000ms 17.067ms 0.028ms 0.057ms 0.626ms Positive or Negative	60.317Hz 16.579ms 15.840ms 0.739ms 0.000ms 15.840ms 0.026ms 0.106ms 0.607ms Positive
Dot Clock Sync. Type	36.000MHz Separate	30.240MHz Separate Composite Sync.-on-G	57.284MHz Separate Composite Sync.-on-G	36.000MHz Separate	40.000MHz Separate
Scan Type	N/I	N/I	N/I	N/I	N/I

2-3-2 Supported Modes (3)

Timing No. Originator Mode Name Resolution (HxV)	14 VESA 800/72Hz 800x600	18 VESA 800/75Hz 800x600	3 VESA 800/85Hz 800x600	15 VESA 1024/60Hz 1024x768	16 VESA 1024/70Hz 1024x768
HORIZONTAL					
Frequency	48.077kHz	46.875kHz	53.674kHz	48.363kHz	56.476kHz
Total time	20.800μs	21.333μs	18.631μs	20.677μs	17.707μs
Active time	16.000μs	16.162μs	14.222μs	15.754μs	13.653μs
Blank time	4.800μs	5.171μs	4.409μs	4.923μs	4.054μs
Border (L / R)	0.000μs	0.000μs	0.000μs	0.000μs	0.000μs
Data time	16.000μs	16.162μs	14.222μs	15.754μs	13.653μs
Front porch	1.120μs	0.323μs	0.569μs	0.369μs	0.320μs
Sync. width	2.400μs	1.616μs	1.138μs	2.092μs	1.813μs
Back porch	1.280μs	3.232μs	2.702μs	2.462μs	1.920μs
Sync. polarity	Positive	Positive	Positive	Negative	Negative
VERTICAL					
Frequency	72.188Hz	75.000Hz	85.061Hz	60.004Hz	70.069Hz
Total time	13.853ms	13.333ms	11.756ms	16.666ms	14.272ms
Active time	12.480ms	12.800ms	11.179ms	15.880ms	13.599ms
Blank time	1.373ms	0.533ms	0.577ms	0.786ms	0.673ms
Border (T / B)	0.000ms	0.000ms	0.000ms	0.000ms	0.000ms
Data time	12.480ms	12.800ms	11.179ms	15.880ms	13.599ms
Front porch	0.770ms	0.021ms	0.019ms	0.062ms	0.053ms
Sync. width	0.125ms	0.064ms	0.056ms	0.124ms	0.106ms
Back porch	0.478ms	0.448ms	0.503ms	0.600ms	0.513ms
Sync. polarity	Positive	Positive	Positive	Negative	Negative
Dot Clock	50.000MHz	49.500MHz	56.250MHz	65.000MHz	75.000MHz
Sync. Type	Separate	Separate	Separate	Separate	Separate
Scan Type	N/I	N/I	N/I	N/I	N/I

Definition of Terms

2-3-2 Supported Modes (4)

Timing No.	19	44	20	
Originator	VESA	VESA	VESA	SUN
Mode Name	1024/75Hz	1024/85Hz	1280/75Hz	1280/76Hz
Resolution (HxV)	1024x768	1024x768	1280x1024	1280x1024
HORIZONTAL				
Frequency	60.023kHz	68.677kHz	79.976kHz	81.129kHz
Total time	16.660μs	14.561μs	12.504μs	1664 pixels
Active time	13.003μs	10.836μs	9.481μs	1280 pixels
Blank time	3.657μs	3.725μs	3.023μs	
Border (L / R)	0.000μs	0.000μs	0.000μs	
Data time	13.003μs	10.836μs	9.481μs	
Front porch	0.203μs	0.508μs	0.119μs	32 pixels
Sync. width	1.219μs	1.016μs	1.067μs	64 pixels
Back porch	2.235μs	2.201μs	1.837μs	288 pixels
Sync. polarity	Positive	Positive	Positive	Negative
VERTICAL				
Frequency	75.029Hz	84.997Hz	75.025Hz	76.106Hz
Total time	13.328ms	11.765ms	13.329ms	1066 pixels
Active time	12.795ms	11.183ms	12.804ms	1024 pixels
Blank time	0.533ms	0.582ms	0.525ms	
Border (T / B)	0.000ms	0.000ms	0.000ms	
Data time	12.795ms	11.183ms	12.804ms	
Front porch	0.017ms	0.015ms	0.013ms	2 pixels
Sync. width	0.050ms	0.044ms	0.038ms	8 pixels
Back porch	0.466ms	0.524ms	0.475ms	32 pixels
Sync. polarity	Positive	Positive	Positive	Negative
Dot Clock	78.750MHz	94.500MHz	135.00MHz	135.00MHz
Sync. Type	Separate	Separate	Separate	Composite
Scan Type	N/I	N/I	N/I	N/I

Memo

3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the GH17P*/GH18P* monitors.

WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.

3-1 Disassembly (GH17P*)

Cautions: 1. Disconnect the monitor from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.

3-1-1 Main Body Disassembly

1. Remove 1 screws on the bottom center of the Rear Cover.
2. Remove signal connector from the shield.
3. Remove Rear Cover from the Front Cover.
4. Remove 4 screws on the Shield and remove the shield.
5. Disconnect Inverter wire, Function PCB wire and Interface wire.
Remove 4 screws on the Main PCB
6. Remove 2 screws on the Inverter PCB.
7. Remove the Main PCB Assembly.
8. Remove 3 screws on the Function PCB.

3-2 Disassembly (GH18P*)

Cautions: 1. Disconnect the monitor from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.

3-2-1 Removing the Stand

1. Remove 4 screws in the hinge area.
2. Disconnect DVI Cable and Signal Cable and Power cord.
3. Pry it off the back of the monitor.
4. Put the jig into the opening hole of the top-center and take the rear cover apart by pushing it upward.
5. Remove 2 screws on the Inverter PCB.
6. Remove the Main PCB Assembly.
7. Remove 3 screws on the Function PCB from locking area of Function knob and remove Function PCB.

3-2-2 Main Body Disassembly

1. Face the monitor down on a soft-cushionea flat surface.
2. Put the jig into the opening hole of the bottom.
3. Open the rear cover partly by pushing the jig into left and right hole.

3-3 Disassembly

Reassembly procedures are in the reverse order of Disassembly procedures.



1. Push the jig deep in the opening hole



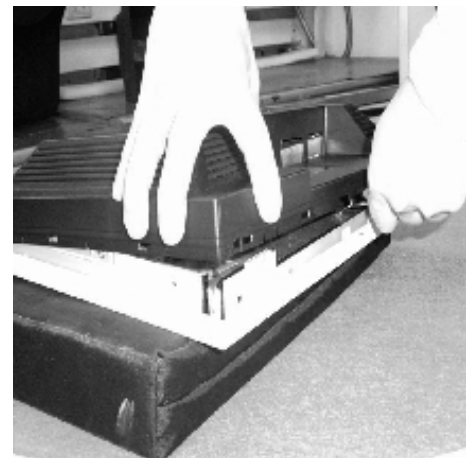
2. Push down the jig and pull up the rear cover till it opens.



3. Do the step 2 in opposite side until it opens.



4. Push the jig in the bottom center of the rear cover.



5. Pull up the jig and the corner of rear cover at the same time.



6. Do the step 5 in the opposite side until it opens.

4-1 Troubleshooting (GH17P*)

Notes: 1. Before troubleshooting, setup the PC's display as below.

- Resolution: 1280 x 1024
- H-frequency: 63 kHz
- V-frequency: 75 Hz

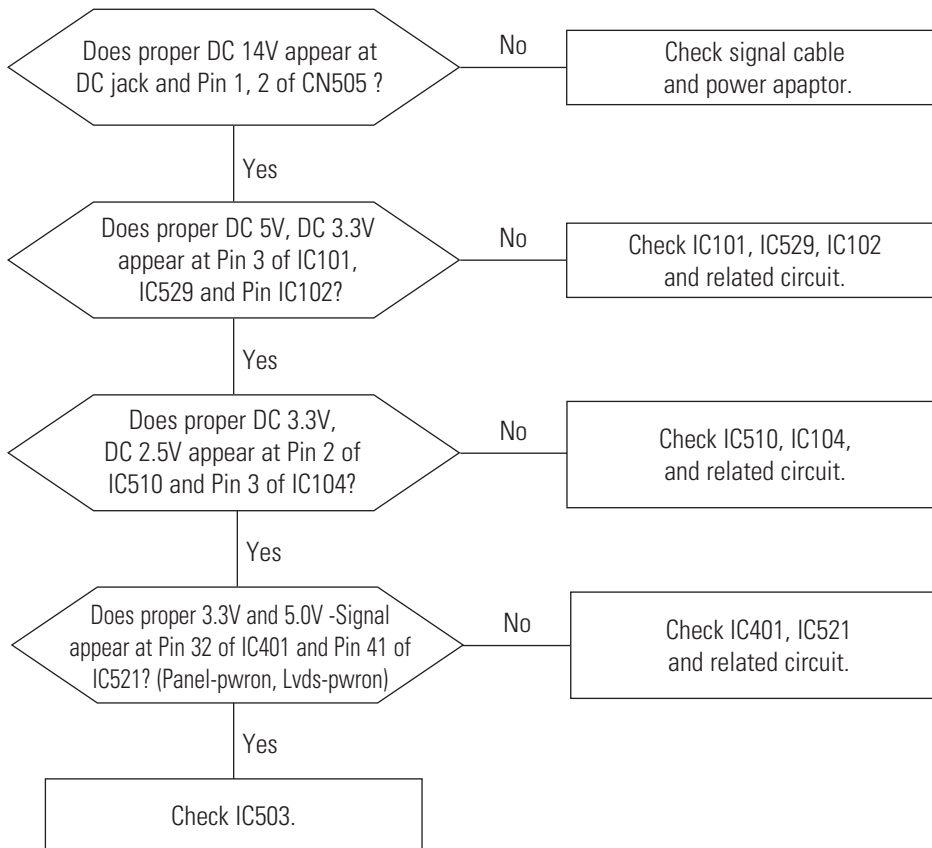
2. If no picture appears, make sure the power cord is correctly connected.

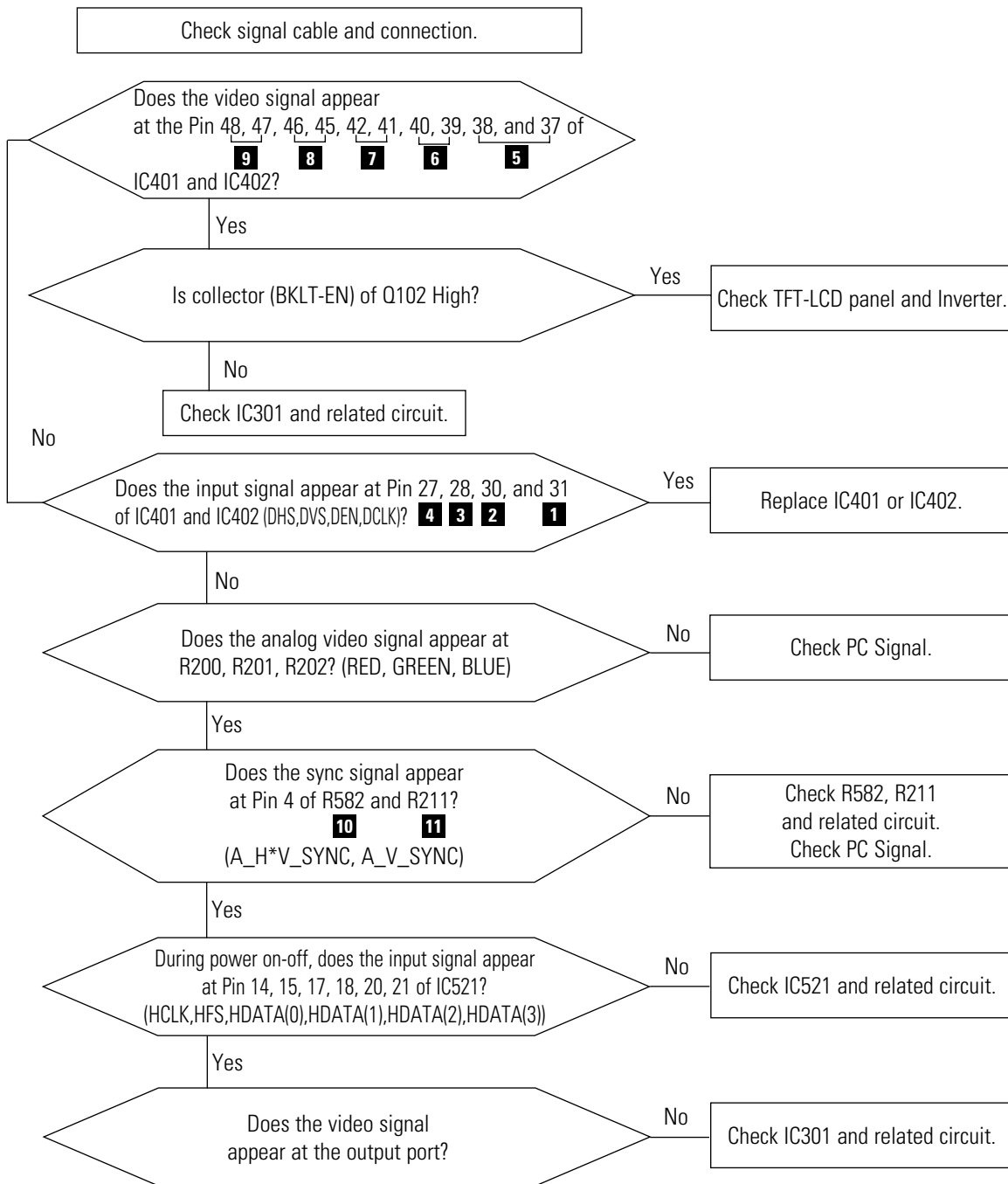
3. Check the following circuits.

- No raster appears: Stand PCB, Main PCB
- 12V develop but no screen: Main PCB
- 12V does not develop: Main PCB

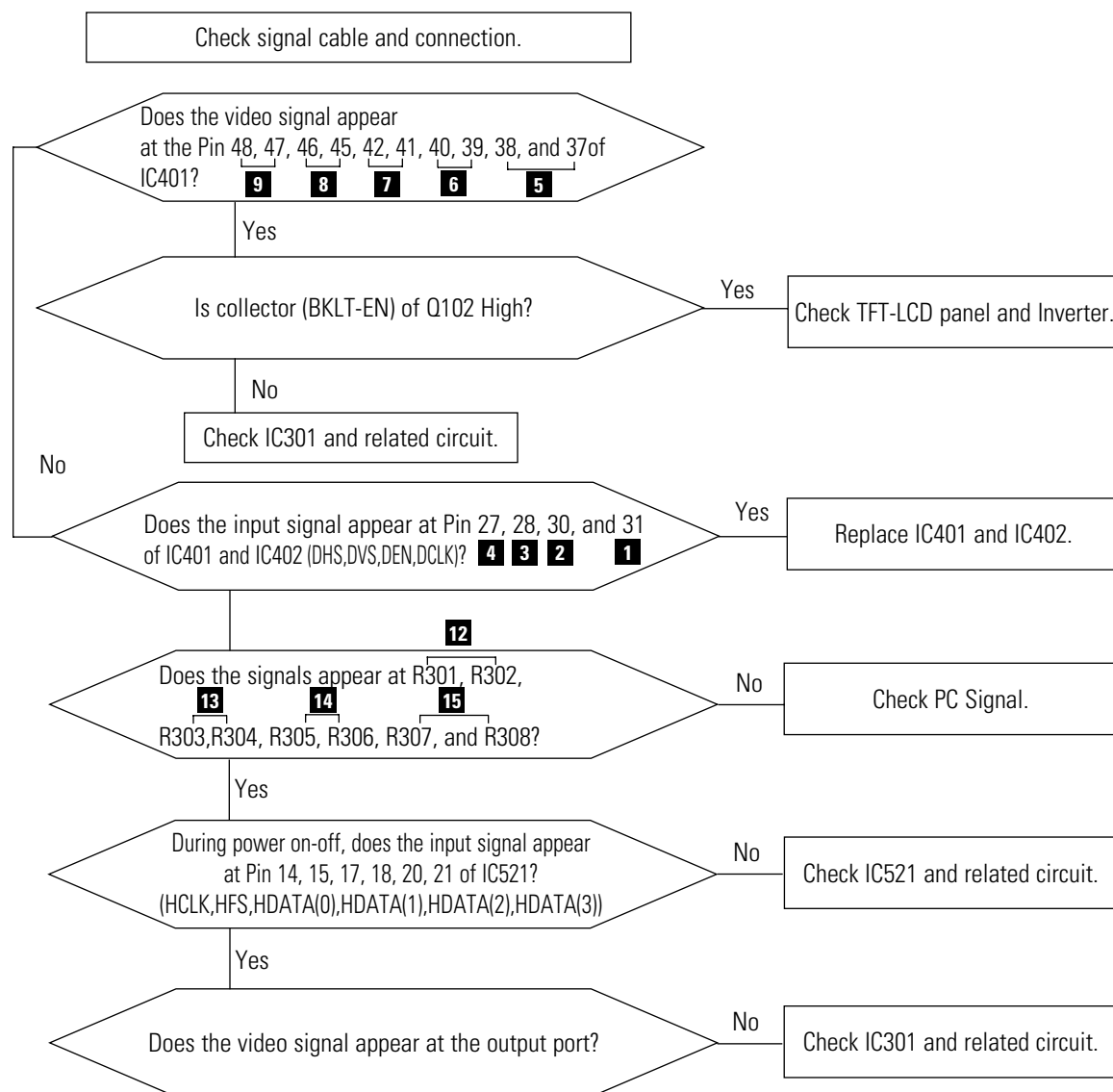
4. If you push and hold the Minus(–) button for more than 5 seconds, the monitor automatically turns back to the factory preset.

4-1-1 No Power



4-1-2 No Video [Analog]

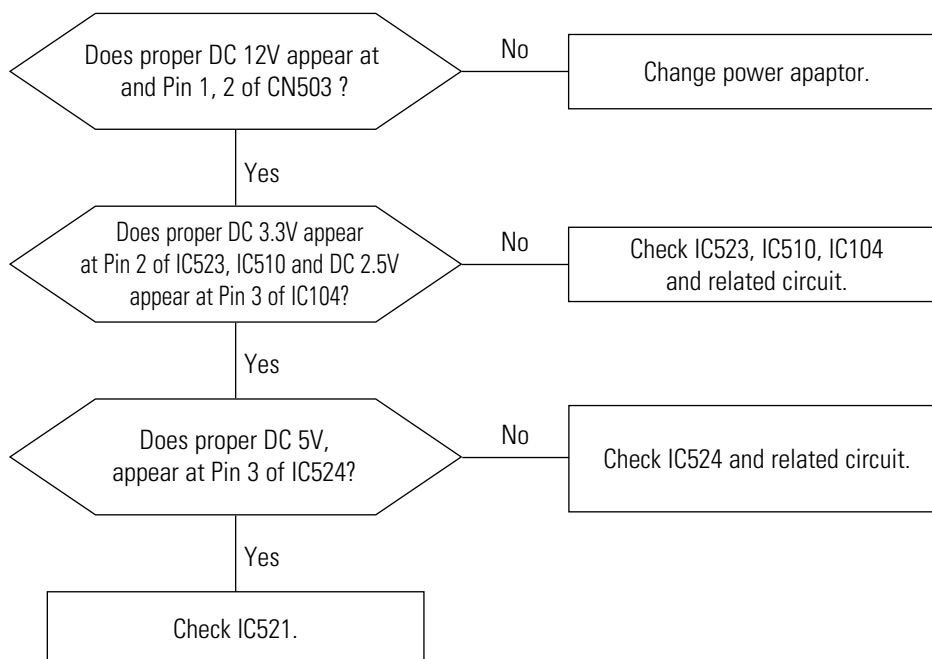
4-1-3 No Video [Digital]



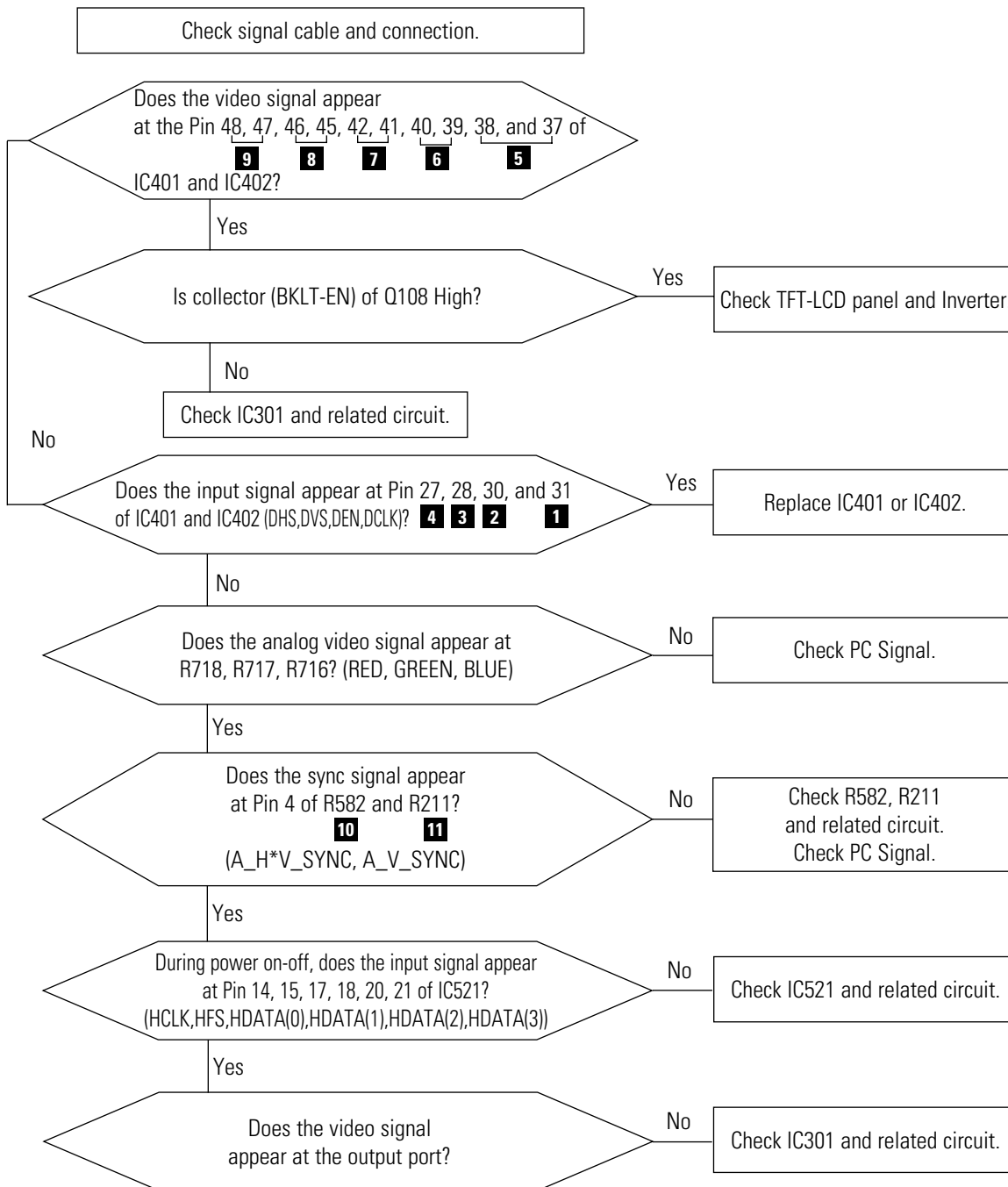
4-2 Troubleshooting (GH18P*)

- Notes:**
- Before troubleshooting, setup the PC's display as below.
 - Resolution: 1280 x 1024
 - H-frequency: 63 kHz
 - V-frequency: 75 Hz
 - If no picture appears, make sure the power cord is correctly connected.
 - Check the following circuits.
 - No raster appears: Stand PCB, Main PCB
 - 12V develop but no screen: Main PCB
 - 12V does not develop: Main PCB
 - If you push and hold the Minus(–) button for more than 5 seconds, the monitor automatically turns back to the factory preset.

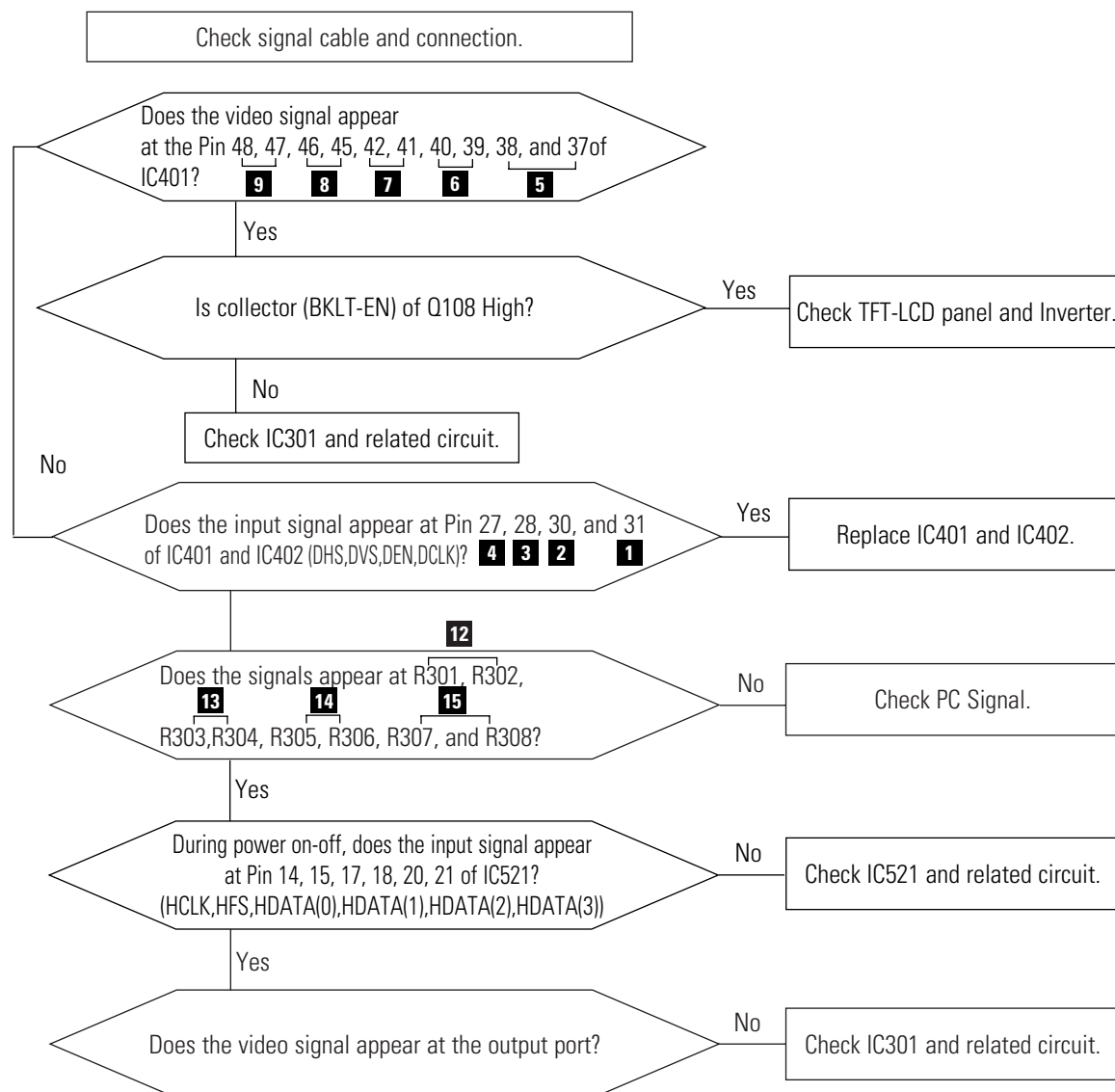
4-2-1 No Power



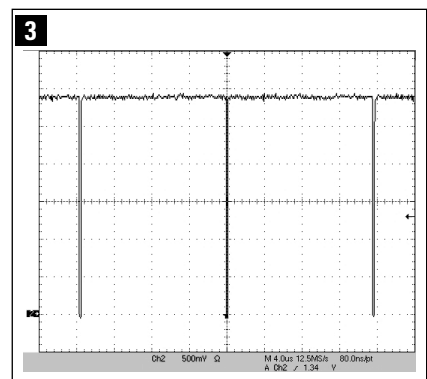
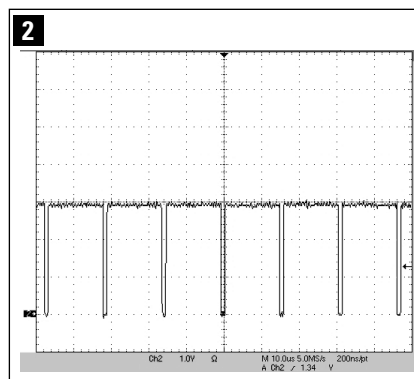
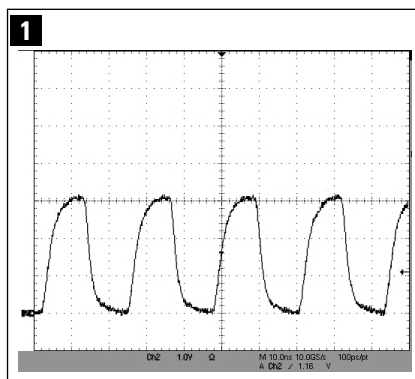
4-2-2 No Video [Analog]

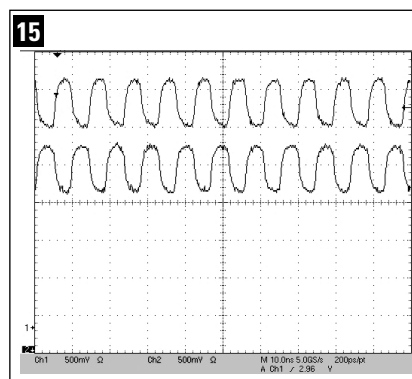
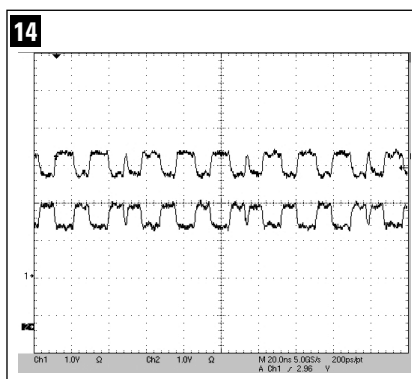
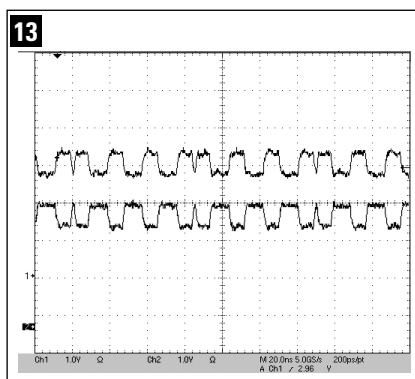
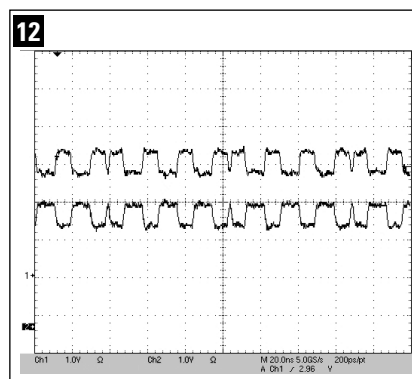
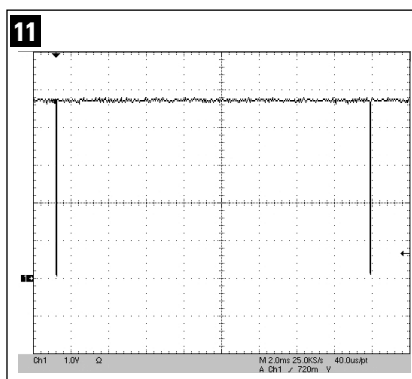
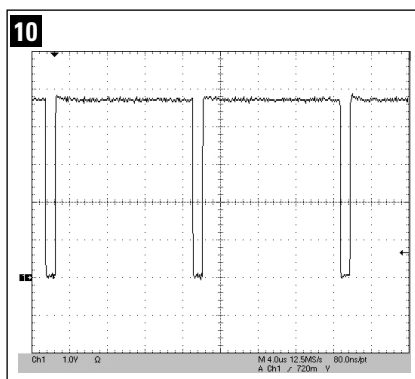
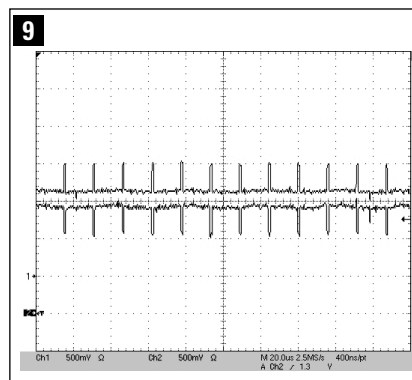
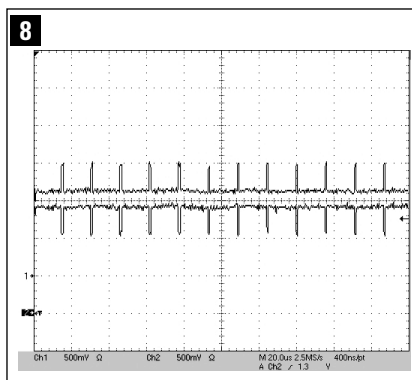
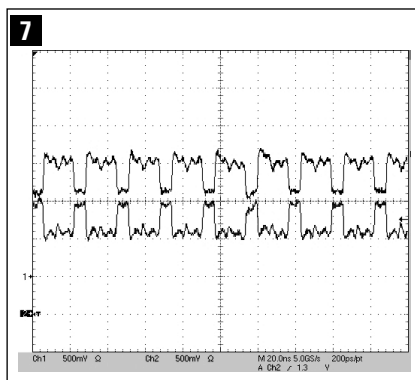
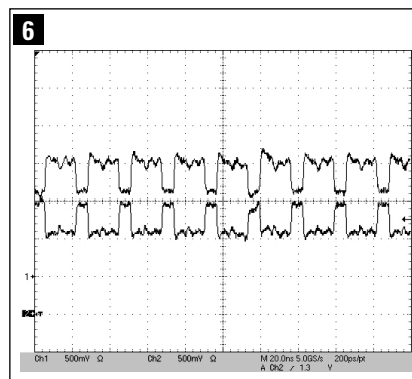
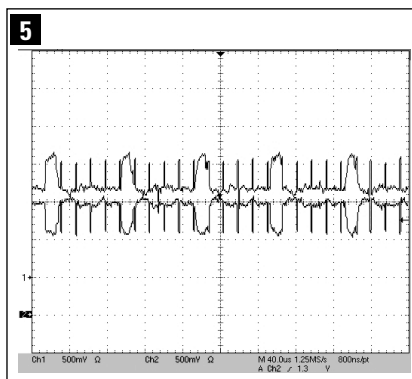
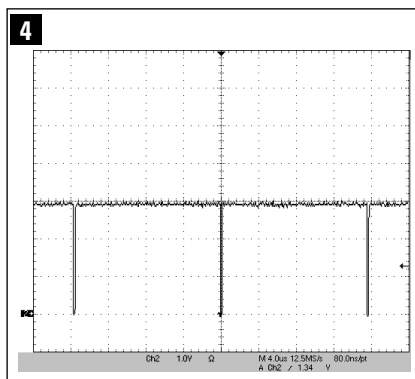


4-2-3 No Video [Digital]



WAVEFORMS



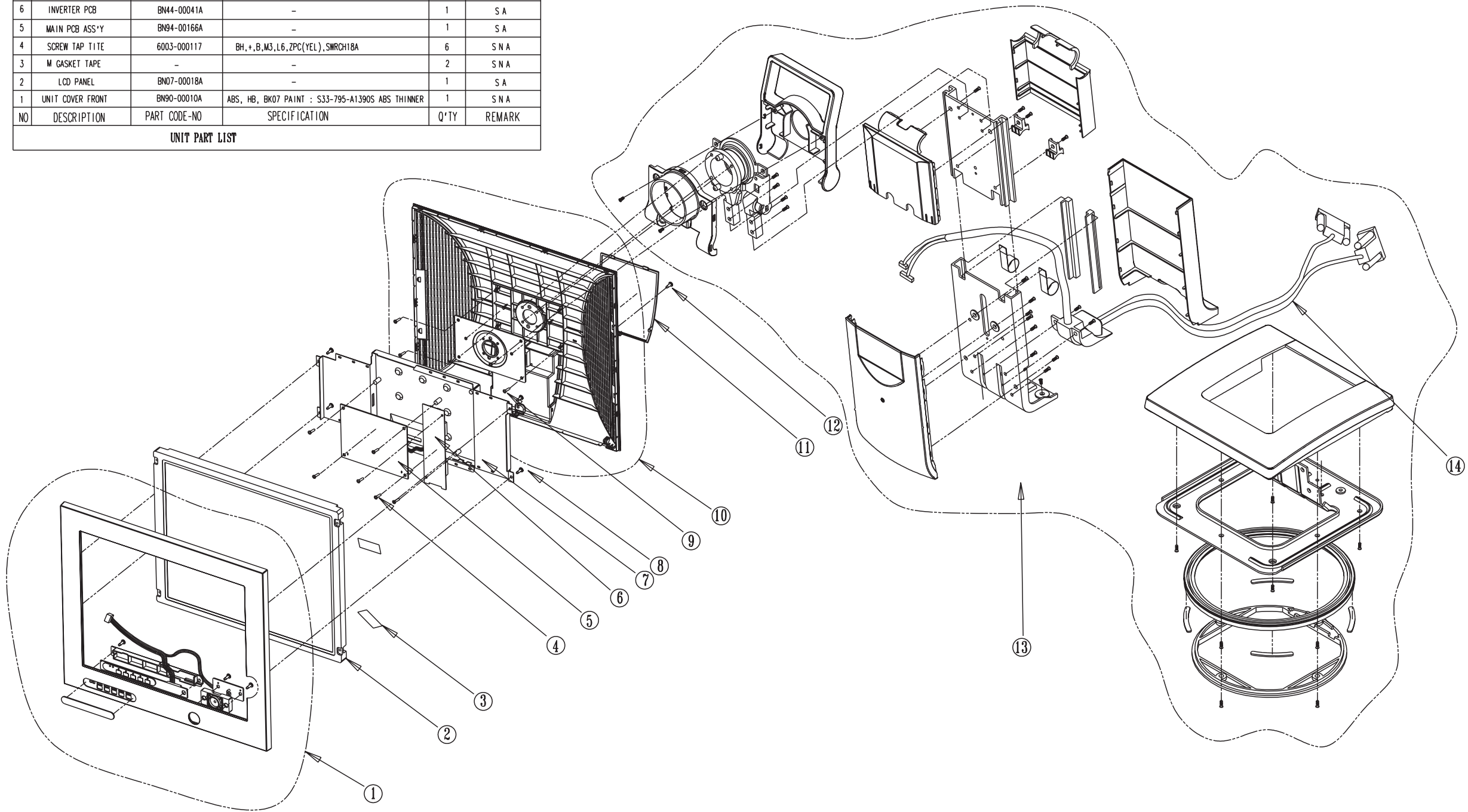


Memo

5 Exploded View and Parts List

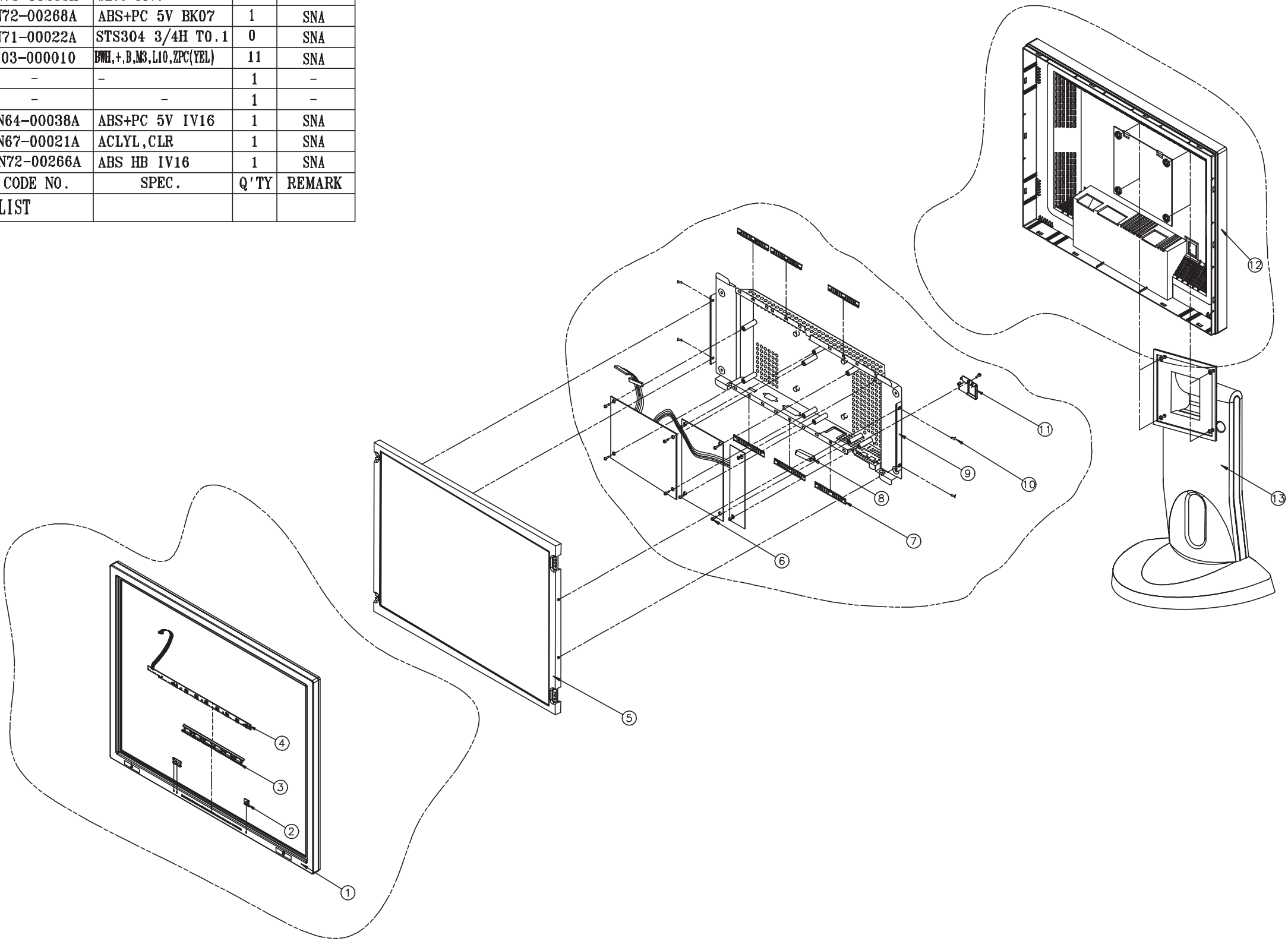
5-1 GH17P*

14	DVI CABLE	BN39-00211A	-	1	S N A
13	UNIT STAND	BN75-00228A	ABS, HB, BK07 PAINT : S33-795-A1390S ABS THINNER	1	S N A
12	SCREW TAP TITE	6003-001188	BH,+,B,M4,L10,ZPC(YEL),SWRCH18	1	S N A
11	DOOR	BN72-00287A	ABS, HB, BK07 PAINT : S33-795-A1390S ABS THINNER	1	S N A
10	UNIT COVER REAR	BN75-00227A	ABS, HB, BK07 PAINT : S33-795-A1390S ABS THINNER	1	S N A
9	SCREW TAP TITE	6003-001188	BH,+,B,M4,L10,ZPC(YEL),SWRCH18	4	S N A
8	SCREW TAP TITE	6003-001188	BH,+,B,M4,L10,ZPC(YEL),SWRCH18	4	S N A
7	UNIT SHIELD COVER	BN75-00226A	SECC T0.8	1	S N A
6	INVERTER PCB	BN44-00041A	-	1	S A
5	MAIN PCB ASS'Y	BN94-00166A	-	1	S A
4	SCREW TAP TITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	6	S N A
3	M GASKET TAPE	-	-	2	S N A
2	LCD PANEL	BN07-00018A	-	1	S A
1	UNIT COVER FRONT	BN90-00010A	ABS, HB, BK07 PAINT : S33-795-A1390S ABS THINNER	1	S N A
NO	DESCRIPTION	PART CODE-NO	SPECIFICATION	Q'TY	REMARK
UNIT PART LIST					



5-2 GH18P*

13	UNIT STAND(SIMPLE)	BN75-00169A	ABS HB BK07	1	SA
12	COVER-REAR	BN72-00267A	ABS HB BK07	1	SA
11	BRKT-POWER	BN70-00244A	SECC T0.8	1	SA
10	SCREW-MACHINE	6001-000325	PH,+B,L10,ZPC(YEL),SCREW 10R	4	SNA
9	SHIELD-PCB	BN75-00205A	SECC T1.0	1	SNA
8	CAP POWER	BN72-00268A	ABS+PC 5V BK07	1	SNA
7	EARTH-PLATE	BN71-00022A	STS304 3/4H T0.1	0	SNA
6	SCREW-TAPTITE	6003-000010	BWH,+B,M3,L10,ZPC(YEL)	11	SNA
5	LCD PANEL	-	-	1	-
4	FUNCTION PCB	-	-	1	-
3	KNOB-FUNCTION	BN64-00038A	ABS+PC 5V IV16	1	SNA
2	LENS-LED	BN67-00021A	ACLYL,CLR	1	SNA
1	COVER-FRONT	BN72-00266A	ABS HB IV16	1	SNA
NO	PART NAME	CODE NO.	SPEC.	Q'TY	REMARK
UNIT PART LIST					



6 Electrical Parts List

6-1-1 Main PCB Parts (GH17P*)

Loc. No.	Code No.	Description	Specification	Remarks
C621	2409-001044	C-ORGANIC	100UF,+20%,16V,WT,TP,8X10.5,5	SNA SNA SNA
C622	2409-001043	C-ORGANIC	47UF,20%,6.3V,WT,TP,6.3X6.8,2.5	
C651	2409-001044	C-ORGANIC	100UF,+20%,16V,WT,TP,8X10.5,5	
CIS	0201-001223	ADHESIVE-TS	HT-130S,RED,700+/- 50,-	
CIS	BN75-00226A	UNIT-SHIELD PANEL	GH17PS,-,-,-,-,-,PORSCHE 17,-	SNA
CIS	BN46-00009E	MICOM-S/W	GH15PSS,-,-,-,-,-,-	SNA
CN201	3711-003035	CONNECTOR-HEADER	BOX,14P,2R,2mm,STRAIGHT,SN	
CN505	3711-002003	CONNECTOR-HEADER	BOX,26P,2R,2mm,STRAIGHT,SN	
IC521	0903-001266	IC-MICROCONTROLLER	NT68F63,8BIT,PLCC,44P,653MIL,12MHZ,ST,CMOS,PLASTIC,5V,-,0TO+70C,256B,4KB,-,MC	
IC521 SOCK	3704-000001	SOCKET-IC	44P,PLCC,SN,-	
IC527	3002-001123	BUZZER-PIEZO	85DB,9VDC,8MA,4.4KHZ +/- 0.5KHZ,BULK	
C101	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C102	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C103	2402-001044	C-AL,SMD	100uF,20%,25V,-,TP,8.3x8.3x6.3	
C104	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C105	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C107	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C110	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C112	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C135	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C137	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C138	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C139	2402-001044	C-AL,SMD	100uF,20%,25V,-,TP,8.3x8.3x6.3	
C201	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C202	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C203	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C204	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NP0,TP,1608	
C214	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NP0,TP,1608	
C215	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NP0,TP,1608	
C252	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NP0,TP,1608	
C301	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C302	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C303	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C304	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C305	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C306	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C307	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C308	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C309	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C310	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C311	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C312	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C313	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C314	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C315	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C316	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C317	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C318	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C319	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C321	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C322	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C323	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C324	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C325	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C326	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C327	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C328	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C329	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C333	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C334	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C335	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C336	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C337	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C338	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C339	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C340	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C341	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C342	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C343	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C344	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C345	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C346	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C347	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C348	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C351	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C352	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C353	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C354	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C355	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C356	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C357	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C358	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C359	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C360	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C361	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C363	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C364	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C365	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C366	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C367	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C368	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C369	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C370	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C371	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C373	2409-001043	C-ORGANIC	47UF,20%,6.3V,WT,TP,6.3X6.8,2.5	
C380	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C381	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C382	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C383	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NP0,TP,1608	
C384	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NP0,TP,1608	
C403	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C404	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C405	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C410	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C416	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C417	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C423	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NP0,TP,1608	
C424	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NP0,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C504	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C505	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C506	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C507	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C513	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C533	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C541	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C545	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C549	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C550	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C560	2203-000384	C-CERAMIC,CHIP	0.015nF,5%,50V,NP0,TP,1608	
C620	2402-001044	C-AL,SMD	100uF,20%,25V,-,TP,8.3x8.3x6.3	
C629	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C630	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C631	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C632	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C633	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C634	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C635	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C636	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C637	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C638	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C639	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C640	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C641	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C642	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C643	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C644	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C645	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C646	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C647	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C648	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C649	2203-000998	C-CERAMIC,CHIP	0.047nF,5%,50V,NP0,TP,1608	
C652	2203-000384	C-CERAMIC,CHIP	0.015nF,5%,50V,NP0,TP,1608	
C653	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C654	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C655	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C656	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C657	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C660	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C662	2203-000681	C-CERAMIC,CHIP	0.027nF,5%,50V,NP0,TP,1608	
C666	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C667	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C668	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C669	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C670	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C671	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C672	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C673	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C674	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C675	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C676	2203-000384	C-CERAMIC,CHIP	0.015nF,5%,50V,NP0,TP,1608	
C677	2203-000384	C-CERAMIC,CHIP	0.015nF,5%,50V,NP0,TP,1608	
C678	2203-000384	C-CERAMIC,CHIP	0.015nF,5%,50V,NP0,TP,1608	
CN101	3711-000556	CONNECTOR-HEADER	BOX,12P,1R,1.25mm,SMD-A,SN	SNA

6 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
CN402	3711-004070	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,SN	SNA
CN504	3711-002052	CONNECTOR-HEADER	BOX,15P,1R,1.25mm,SMD-A,SN	SNA
D117	0402-001098	DIODE-RECTIFIER	SK34,40V,3A,SMC,TP	
D118	0402-001098	DIODE-RECTIFIER	SK34,40V,3A,SMC,TP	
D201	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D202	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D203	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D205	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D206	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D209	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D210	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D251	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D252	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D253	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D254	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D255	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D256	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D257	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D258	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D265	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D266	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
FT121	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT122	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT301	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT302	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT303	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT304	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT305	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT407	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT408	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT412	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT415	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT416	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT417	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
IC101	1203-001448	IC-POSI.FIXED REG.	2596,TO-263,5P,-,PLASTIC,4.750	
IC102	1203-001447	IC-POSI.FIXED REG.	2596,TO-263,5P,-,PLASTIC,3.135	
IC104	1203-001890	IC-VOLTAGE REGULATOR	3961,SOT223-5,5P,-,PLASTIC,2.5V,-,40to+125C,800mA,-,TR	
IC204	1103-000129	IC-EEPROM	24C02,256x8BIT,SOP,8P,150MIL,1	
IC301	0904-001585	IC-GRAPHIC CONT.	GM5020 01H,-,BGA,292P,1063MIL,160MHZ,TR,CMOS,PLASTIC,2.5V,19.1W,0TO+70C,;;,10	
IC401	1205-001740	IC-TRANSMITTER	DS90C385,TSSOP,56P,240MIL,PLASTIC,4V,1.63W,-,10 TO +70C,ST,FPD LINK-85MHZ(LVDS)	
IC402	1205-001740	IC-TRANSMITTER	DS90C385,TSSOP,56P,240MIL,PLASTIC,4V,1.63W,-,10 TO +70C,ST,FPD LINK-85MHZ(LVDS)	
IC502	1103-001023	IC-EEPROM	524C08D81,1028x8Bit,SOP,8P,150MIL,10ms,5V,10%,PLASTIC,0to+70C,110uA,CMOS,TP	
IC507	0803-000117	IC-TTL	74F14,INVERTER,SOP,14P,150MIL,	
IC510	1203-000490	IC-SWITCH VOL. REG.	1117,SOT-223,3P,-,PLASTIC,3.235/3.365V,-,0to+125C,800mA,1.224/1.264V,TP	
IC512	1105-001165	IC-DRAM	416S1020,512Kx16BITx2,TSOP,50P	
IC513	1105-001165	IC-DRAM	416S1020,512Kx16BITx2,TSOP,50P	
IC514	1105-001165	IC-DRAM	416S1020,512Kx16BITx2,TSOP,50P	
IC516	1204-001551	IC-VIDEO SYSTEM	GS1881,SOIC,8P,150MIL,PLASTIC,13.2V,-,0TO+70C,TP,VIDEO SYNC SEPARATOR	
IC519	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
IC520	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
IC525	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
IC526	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
IC528	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
JP1	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP12	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
JP14	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP15	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP17	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP19	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP21	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP24	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP26	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP27	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP3	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP5	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP7	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP9	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
L101	BN27-00008A	COIL-SMD	SMD12*12*8.5,GH15/17PS,22.0UH,±20%,0.0450HM MAX,3.0A,DR10X7/SMD12X6.7,16.5TS	
L102	BN27-20001A	COIL-CHOKE	-,53.0UH,20%,DR10*5,---,0.18ohm,---,TRAY	
L509	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
L510	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
L511	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
L512	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
L513	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
L514	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
L515	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
MP1.0	BN41-00118A	PCB MAIN	PORSCHE 17,FR4,6L,-,1.6T,138 * 107 * 1.6T,GH17PSS,---	
Q102	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	
R100	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R106	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R115	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R200	2007-000287	R-CHIP	100OHM,1%,1/10W,DA,TP,1608	
R201	2007-000287	R-CHIP	100OHM,1%,1/10W,DA,TP,1608	
R202	2007-000287	R-CHIP	100OHM,1%,1/10W,DA,TP,1608	
R203	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R204	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R205	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R211	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R218	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R219	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R230	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R231	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R253	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R254	2007-001002	R-CHIP	510ohm,5%,1/16W,DA,TP,1608	
R255	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R256	2007-000097	R-CHIP	47Kohm,5%,1/16W,DA,TP,1608	
R257	2007-000097	R-CHIP	47Kohm,5%,1/16W,DA,TP,1608	
R260	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R261	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R300	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R301	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R302	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R303	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R304	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R305	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R306	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R307	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R308	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R309	2007-000287	R-CHIP	100OHM,1%,1/10W,DA,TP,1608	
R310	2007-000287	R-CHIP	100OHM,1%,1/10W,DA,TP,1608	

6 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
R311	2007-000287	R-CHIP	1000HM,1%,1/10W,DA,TP,1608	
R340	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R341	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R342	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R343	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R415	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R503	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R506	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R507	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R508	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R509	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R510	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R511	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R512	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R514	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R520	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R521	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R582	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R592	2007-000124	R-CHIP	2.2Kohm,5%,1/16W,DA,TP,1608	
R655	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R665	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R668	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R669	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R670	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R671	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R682	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
R683	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
R684	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
R690	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R691	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R692	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R693	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R694	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
R695	2007-000109	R-CHIP	1Mohm,5%,1/16W,DA,TP,1608	
R696	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
R697	2007-001114	R-CHIP	680Kohm,5%,1/16W,DA,TP,1608	
R698	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R701	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R702	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R703	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R704	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R705	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R706	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R707	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R708	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R709	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R710	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R711	2007-001002	R-CHIP	510ohm,5%,1/16W,DA,TP,1608	
R712	2007-001002	R-CHIP	510ohm,5%,1/16W,DA,TP,1608	
R713	2007-001002	R-CHIP	510ohm,5%,1/16W,DA,TP,1608	
R714	2007-001002	R-CHIP	510ohm,5%,1/16W,DA,TP,1608	
R715	2007-001002	R-CHIP	510ohm,5%,1/16W,DA,TP,1608	
R716	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R717	2007-000118	R-CHIP	390ohm,5%,1/16W,DA,TP,1608	
R718	2007-000118	R-CHIP	390ohm,5%,1/16W,DA,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R719	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R720	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R721	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R722	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R723	2007-001002	R-CHIP	510ohm,5%,1/16W,DA,TP,1608	
R724	2007-001002	R-CHIP	510ohm,5%,1/16W,DA,TP,1608	
R725	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R726	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R727	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R728	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R729	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R730	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R731	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R732	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R733	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R734	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R735	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R736	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R737	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R738	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R739	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R740	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R741	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R742	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R743	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R744	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R745	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R746	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R747	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R748	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
RA301	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA302	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA303	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA304	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA305	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA306	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA307	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA308	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA309	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA310	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA311	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA312	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
X301	2801-003326	CRYSTAL-SMD	24MHz,30ppm,28-ABX,16pF,50ohm,	
X302	2801-003773	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	

6-1-2 Others (GH17P*)

Part Name	Code No.	Description & Specification	Remarks
PANEL	BN07-00018A	LTM170E4-L01,LSA,8BIT,341.52*273.936,16.7M,30,-,-,-,AMLCD/2 LVDS,-	
MAIN PCB ASS'Y	BN94-00166A	GH17PSS,-,-,-	
SIGNAL CABLE	BN39-00211A	GH15/17PSS,24P/15P-26P/14P,20276,1500MM,UL20276,BLACK,DVI-I/D-SUB,-,-,ATT. TYPE	
INVERTER	BN44-00041A	ML17,SIC1803,48KHz,14VDC,1.5mArms,7.2mArms,48KHz,160*45*17,4LAMP,48KHz,-,-	
INVERTER HARNESS	BN39-00002A	-,60,BLU/WHT,-,26,-	
LVDS HARNESS	BN39-00179A	GH17MS,UL1571#30,UL/CSA,30P,-,BLU/WHT,#30,DF14-30S-1.25C,FI-X30H,BK,300V,1.25MM,	
ADAPTOR	BN44-00058A	PSCV420106A(AD-4214N,GH17PS ,100 TO 240 VAC,47 - 63 HZ,+14VDC,3A,-,42W,AC-DC,0 T	

6-2-1 Main PCB Parts (GH18P*)

Loc. No.	Code No.	Description	Specification	Remarks
C373	2409-001043	C-ORGANIC	47UF,20%,6.3V,WT,TP,6.3X6.8,2.5	SNA
C622	2409-001043	C-ORGANIC	47UF,20%,6.3V,WT,TP,6.3X6.8,2.5	
CIS	0201-001223	ADHESIVE-TS	HT-130S,RED,700+/- 50,-	
CIS	BN44-00055A	ADAPTOR	DPA46L,180B,100-240VAC,47-63HZ,12V/5V,3A/2A,-,-,AC-DC,-10-40C,-,-	
CIS	BN70-00244A	PLATE-BRKT POWER	GH18PS,SECC,-,TO.8,-,-,-,-,-,-	SNA
CIS	BN72-00268A	SHEET ABS-POWER	GH18PS,ABS + PC 5V,BK07,-,-,-,-,-,-,-,-	
CIS	BN75-00205A	UNIT-SHIELD PCB	GH18PS,-,SECC T1.0,-,-,-,-,-,-	
CN201	3701-001219	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	
CN202	3701-001173	CONNECTOR-DSUB	24P,3R,FEMALE,ANGLE,AUF	SNA
CN503	3711-004853	CONNECTOR-HEADER	BOX,7P,1R,2MM,ANGLE,SN,WHT	
SH/PCB+B/POW	6003-000117	SCREW-TAPTITE	BH,+ ,B,M3,L6,ZPC(YEL),SWRCH18A	
SH/PCB+M/PCB	6003-000117	SCREW-TAPTITE	BH,+ ,B,M3,L6,ZPC(YEL),SWRCH18A	
SH/PCB+P/PCB	6003-000117	SCREW-TAPTITE	BH,+ ,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
C110	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	SNA
C112	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C135	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C204	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NP0,TP,1608	
C214	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NP0,TP,1608	SNA
C215	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NP0,TP,1608	
C252	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NP0,TP,1608	
C301	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C302	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	SNA
C303	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C304	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C305	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C306	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	SNA
C307	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C308	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C309	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C310	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	SNA
C311	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C312	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C313	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C314	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	SNA
C315	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C316	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C317	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C318	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	SNA
C319	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C321	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C322	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C323	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	SNA
C324	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C325	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C326	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C327	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	SNA
C328	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C329	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C333	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C334	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	SNA
C335	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C336	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C337	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C338	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	SNA
C339	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C340	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C341	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C342	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C343	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C344	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C345	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C346	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C347	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C348	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C351	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C352	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C353	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C354	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C355	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C356	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C357	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C358	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C359	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C360	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C361	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C363	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C364	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C365	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C366	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C367	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C368	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C369	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C370	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C371	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C380	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C381	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C382	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C383	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NP0,TP,1608	
C384	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NP0,TP,1608	
C403	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C404	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C405	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C410	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C416	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C417	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C423	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NP0,TP,1608	
C424	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NP0,TP,1608	
C513	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C521	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C533	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C541	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C545	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C560	2203-000384	C-CERAMIC,CHIP	0.015nF,5%,50V,NP0,TP,1608	
C620	2402-001044	C-AL,SMD	100uF,20%,25V,-,TP,8.3x8.3x6.3	
C630	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C631	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C632	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C633	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C634	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C635	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C636	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C637	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C638	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C639	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C640	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C641	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C642	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C643	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C644	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C645	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C646	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C647	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C648	2203-001607	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C649	2203-000998	C-CERAMIC,CHIP	0.047nF,5%,50V,NP0,TP,1608	
C652	2203-000384	C-CERAMIC,CHIP	0.015nF,5%,50V,NP0,TP,1608	
C653	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C654	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C655	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C656	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C657	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C660	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C662	2203-000681	C-CERAMIC,CHIP	0.027nF,5%,50V,NP0,TP,1608	
C666	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C667	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C668	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C669	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C670	2402-001044	C-AL,SMD	100uF,20%,25V,-,TP,8.3x8.3x6.3	
C671	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C672	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C673	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C674	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C675	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C676	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C677	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C678	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C679	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C680	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C681	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C682	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C683	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C684	2203-000384	C-CERAMIC,CHIP	0.015nF,5%,50V,NP0,TP,1608	
C685	2203-000384	C-CERAMIC,CHIP	0.015nF,5%,50V,NP0,TP,1608	
C686	2203-000384	C-CERAMIC,CHIP	0.015nF,5%,50V,NP0,TP,1608	
CIS	BN46-00009E	MICOM-S/W	GH15PSS,-,-,-,-,-,-,-	SNA
CN101	3711-000556	CONNECTOR-HEADER	BOX,12P,1R,1.25mm,SMD-A,SN	SNA
CN402	3711-004070	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,SN	SNA
CN504A	3708-000461	CONNECTOR-FPC/FC/PIC	8P,1mm,SMD,AUF	
D201	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D202	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D203	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D205	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D206	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D209	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D210	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D251	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	

Loc. No.	Code No.	Description	Specification	Remarks
D252	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D253	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D254	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D255	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D256	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D257	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D258	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D265	0403-000579	DIODE-ZENER	BZX84C5V1.5,1V,5%,200mW,SOT-23	
D266	0403-000579	DIODE-ZENER	BZX84C5V1.5,1V,5%,200mW,SOT-23	
FT121	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT122	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT301	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT302	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT303	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT304	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT305	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT407	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT408	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT412	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT413	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT414	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT415	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT416	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
IC104	1203-001890	IC-VOLTAGE REGULATOR	3961,SOT223-5,5P,-,PLASTIC,2.5V,-,-40to+125C,800mA,-,TR	
IC204	1103-000129	IC-EEPROM	24C02,256x8BIT,SOP,8P,150MIL,1	
IC301	0904-001585	IC-GRAPHIC CONT.	GM5020 01H,-,BGA,292P,1063MIL,160MHZ,TR,CMOS,PLASTIC,2.5V,19.1W,0TO+70C,-,-,10	
IC401	1205-001740	IC-TRANSMITTER	DS90C385,TSSOP,56P,240MIL,PLASTIC,4V,1.63W,-10 TO +70C,ST,FPD LINK-85MHZ(LVDS)	
IC402	1205-001740	IC-TRANSMITTER	DS90C385,TSSOP,56P,240MIL,PLASTIC,4V,1.63W,-10 TO +70C,ST,FPD LINK-85MHZ(LVDS)	
IC502	1103-001023	IC-EEPROM	524C08D81,1028x8Bit,SOP,8P,150MIL,10mS,5V,10%,PLASTIC,0to+70C,110uA,CMOS,TP	
IC507	0803-000117	IC-TTL	74F14,INVERTER,SOP,14P,150MIL,	
IC510	1203-000490	IC-SWITCH VOL. REG.	1117,SOT-223,3P,-,PLASTIC,3.235/3.365V,-,0to+125C,800mA,1.224/1.264V,TP	
IC512	1105-001165	IC-DRAM	416S1020,512Kx16BITx2,T SOP,50P	
IC513	1105-001165	IC-DRAM	416S1020,512Kx16BITx2,T SOP,50P	
IC514	1105-001165	IC-DRAM	416S1020,512Kx16BITx2,T SOP,50P	
IC516	1204-001551	IC-VIDEO SYSTEM	GS1881,SOIC,8P,150MIL,PLASTIC,13.2V,-,0TO+70C,TP,VIDEO SYNC SEPARATOR	
IC519	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
IC520	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
IC521	0903-001266	IC-MICROCONTROLLER	NT68F63,8BIT,PLCC,44P,653MIL,12MHZ,ST,CMOS,PLASTIC,5V,-,0TO+70C,256B,4KB,-,-,MC	
IC521 SOCK	3704-000001	SOCKET-IC	44P,PLCC,SN,-	
IC522	1203-001488	IC-POS.FIXED REG.	7805,TO-252,3P,-,PLASTIC,4.8/5	
IC523	1203-000490	IC-SWITCH VOL. REG.	1117,SOT-223,3P,-,PLASTIC,3.235/3.365V,-,0to+125C,800mA,1.224/1.264V,TP	
IC525	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
JP1	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP12	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP14	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP15	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP17	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP19	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP21	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP24	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP26	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP27	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP3	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP5	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
JP7	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
JP9	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
MP1.0	BN41-00119A	PCB MAIN	NARROW 18,FR4,6L,-,1.6T,138 * 107 * 1.6T,GH18PS,-,-,-	
Q108	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	
R203	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R204	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R205	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R211	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R218	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R219	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R230	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R231	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R253	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R254	2007-001002	R-CHIP	510ohm,5%,1/16W,DA,TP,1608	
R255	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R256	2007-000097	R-CHIP	47Kohm,5%,1/16W,DA,TP,1608	
R257	2007-000097	R-CHIP	47Kohm,5%,1/16W,DA,TP,1608	
R260	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R261	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R300	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R301	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R302	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R303	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R304	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R305	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R306	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R307	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R308	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R309	2007-000287	R-CHIP	100OHM,1%,1/10W,DA,TP,1608	
R310	2007-000287	R-CHIP	100OHM,1%,1/10W,DA,TP,1608	
R311	2007-000287	R-CHIP	100OHM,1%,1/10W,DA,TP,1608	
R340	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R341	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R342	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R343	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R415	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R503	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R506	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R507	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R508	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R509	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R510	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R511	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R512	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R514	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R520	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R521	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R582	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R592	2007-000124	R-CHIP	2.2Kohm,5%,1/16W,DA,TP,1608	
R655	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R664	2007-000118	R-CHIP	390ohm,5%,1/16W,DA,TP,1608	
R665	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R666	2007-000118	R-CHIP	390ohm,5%,1/16W,DA,TP,1608	
R668	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R669	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R670	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	

6 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
R671	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R672	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R673	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R682	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
R683	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
R684	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
R692	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R693	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R694	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
R695	2007-000109	R-CHIP	1Mohm,5%,1/16W,DA,TP,1608	
R696	2007-000116	R-CHIP	120ohm,5%,1/16W,DA,TP,1608	
R697	2007-001114	R-CHIP	680Kohm,5%,1/16W,DA,TP,1608	
R698	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R701	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R702	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R703	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R704	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R705	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R706	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R707	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R708	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R709	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R710	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R711	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R712	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R713	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R715	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R716	2007-000287	R-CHIP	1000HM,1%,1/10W,DA,TP,1608	
R717	2007-000287	R-CHIP	1000HM,1%,1/10W,DA,TP,1608	
R718	2007-000287	R-CHIP	1000HM,1%,1/10W,DA,TP,1608	
R720	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R721	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R722	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R723	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R724	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R725	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R726	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R727	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R728	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R729	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R730	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R731	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R732	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R733	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R734	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R735	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R736	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R737	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R738	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R739	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R740	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R741	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R742	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
RA301	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA302	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	

Loc. No.	Code No.	Description	Specification	Remarks
RA303	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA304	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA305	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA306	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA307	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA308	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA309	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA310	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA311	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
RA312	2011-000585	R-NETWORK	47ohm,5%,63mW,L,CHIP,8P,TP	
X301	2801-003326	CRYSTAL-SMD	24MHz,30ppm,28-ABX,16pF,50ohm,	
X302	2801-003773	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	
ZD1	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
ZD2	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	

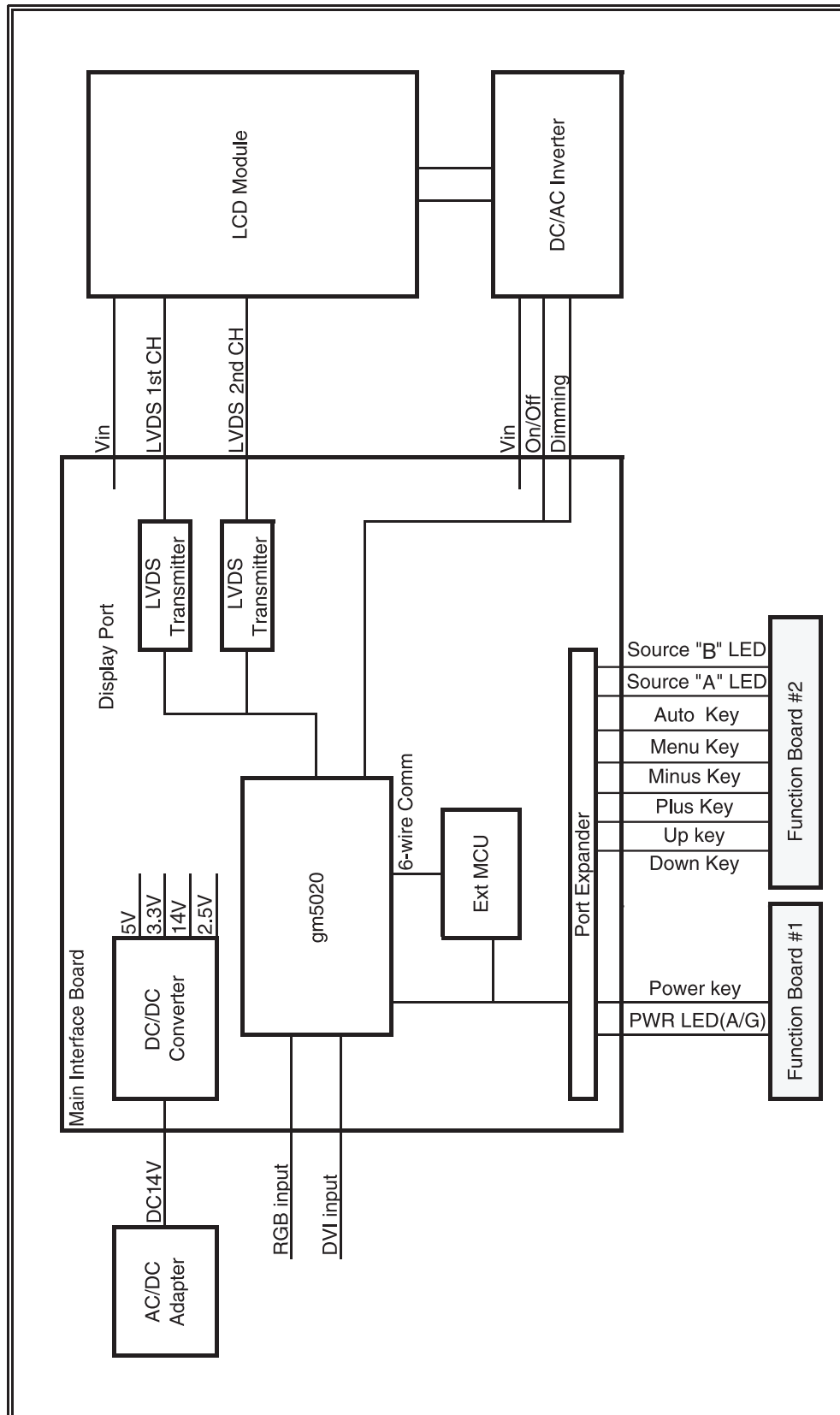
6-2-2 Others (GH18P*)

Part Name	Code No.	Description & Specification	Remarks
PANEL	BN07-00048A	TM181SX-76N01,GT18MS,6BIT FRC,403.2*321.2*22.5,16.7M,40,0.2805*0.2805,0-40,5.0,T	
MAIN PCB ASS'Y	BN94-00112C	GH18PS,-,-,-	
SIGNAL CABLE(ANALOG)	BN39-00115A	NL5MO,15P/15P,2990,1830MM,UL2990,BLACK,D-SUB/MALE,-,-,-	
SIGNAL CABLE(DIGITAL)	BN39-00073A	DET,2000MM,24P/24P,BLACK,-,DVI-D(M) TO DVI-D(M)	
INVERTER	BN44-00061A	CY15PO,SIC540,48KHZ,11.5-14.5,3.6MARMS,6.8MARMS,48KHZ,140*60*6.4,4,-,14VDC,SIC54	
INVERTER HARNESS	BN39-00162A	GH17LS,UL/CSA,UL1061#28,12P/12P,240MM,WHT,UL1061#28,51021-1200,51021-1200,BK,300	
LVDS HARNESS	BN39-00179A	GH17MS,UL1571#30,UL/CSA,30P,-,BLU/WHT,#30,DF14-30S-1.25C,FI-X30H,BK,300V,1.25MM,	

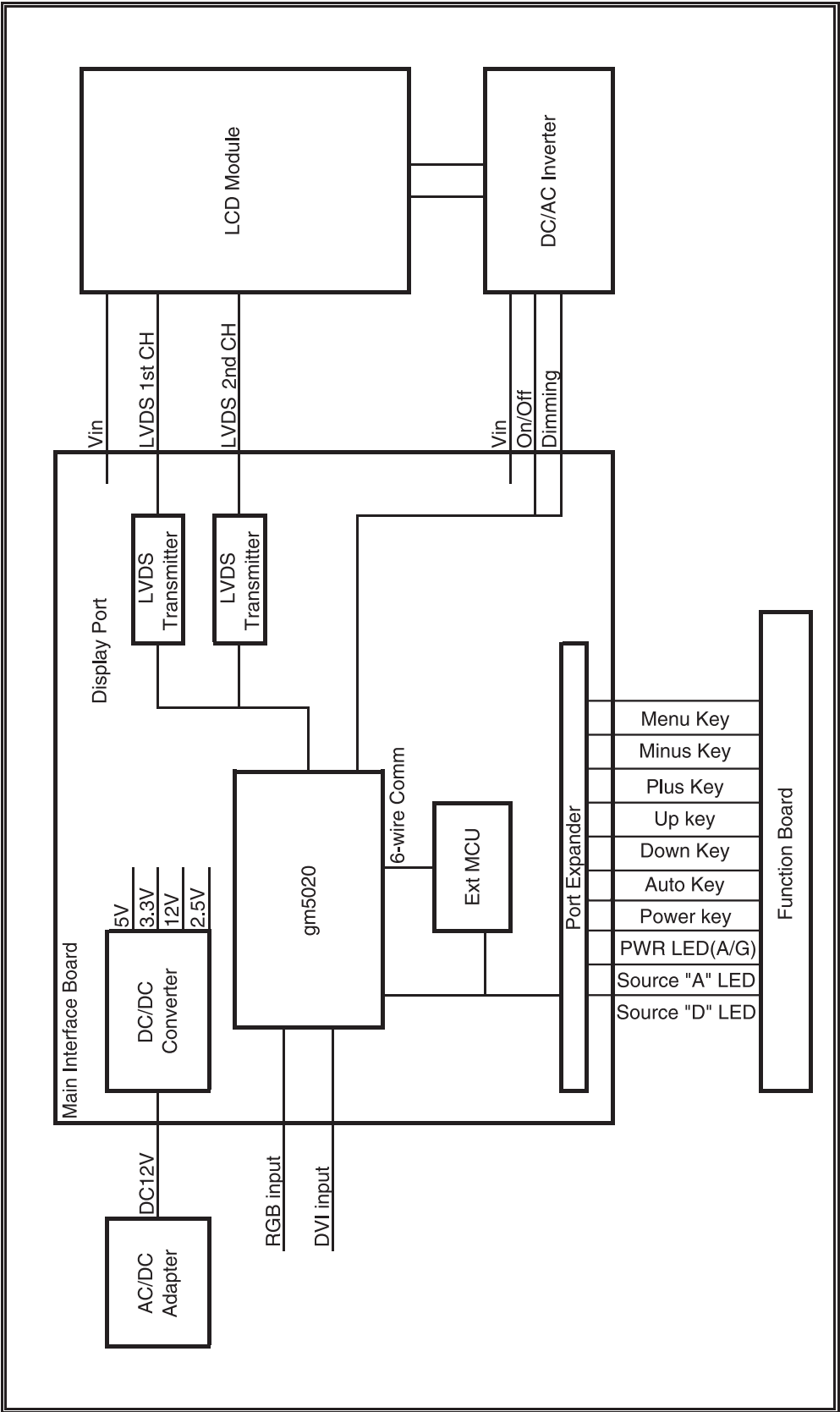
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7 Block Diagram

7-1 GH17P*

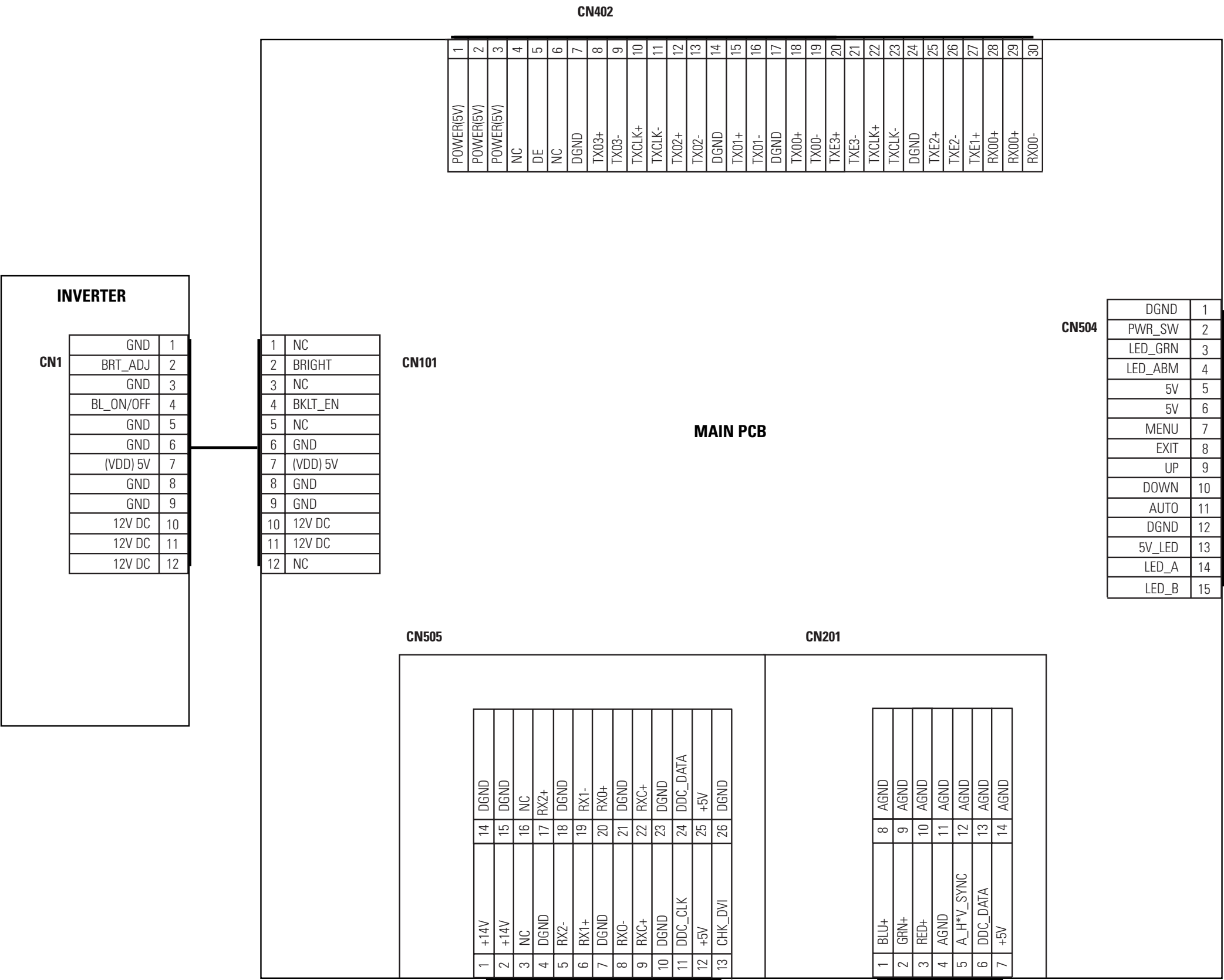


7-2 GH18P*

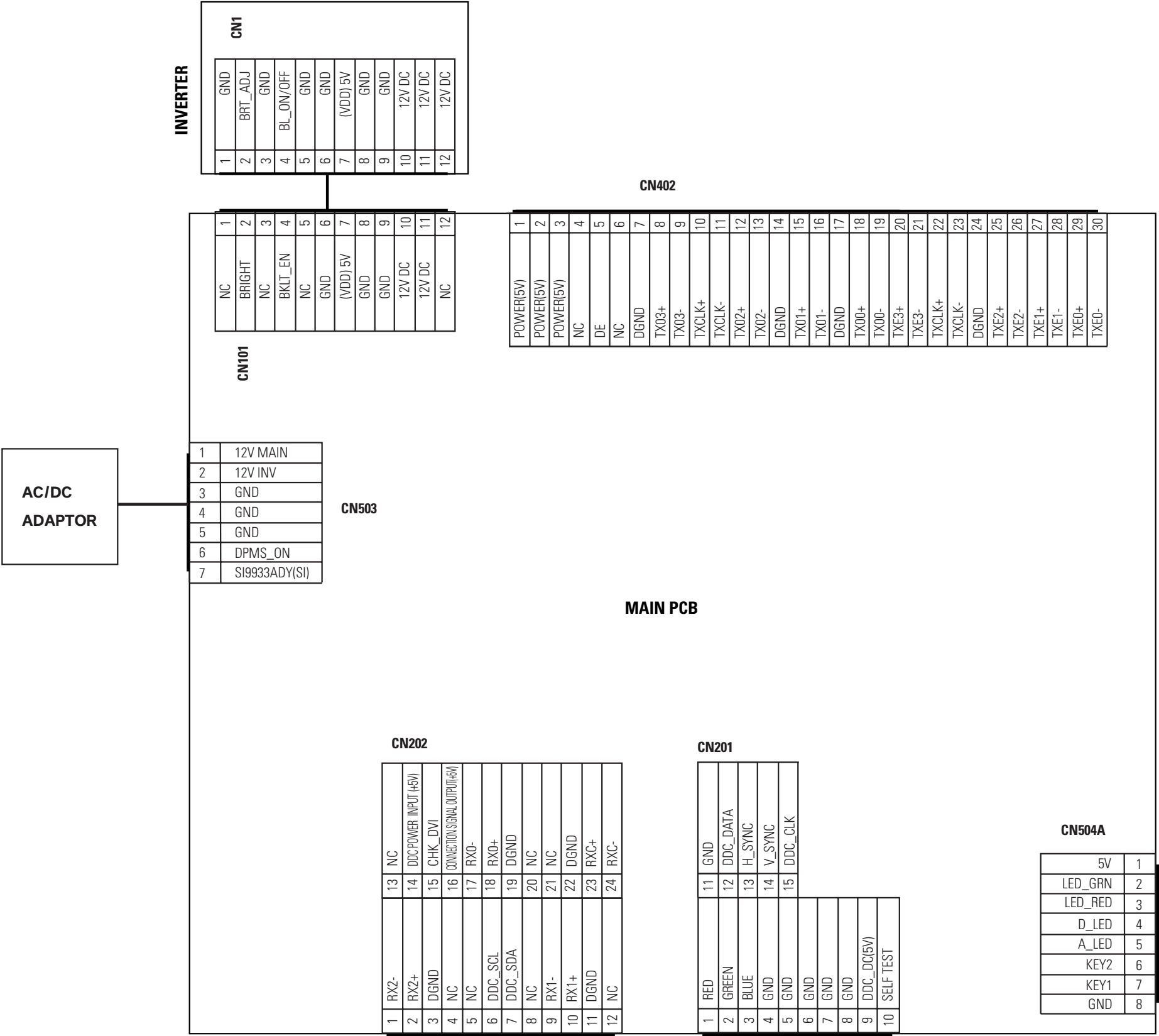


8 Wiring Diagram

8-1 GH17P*

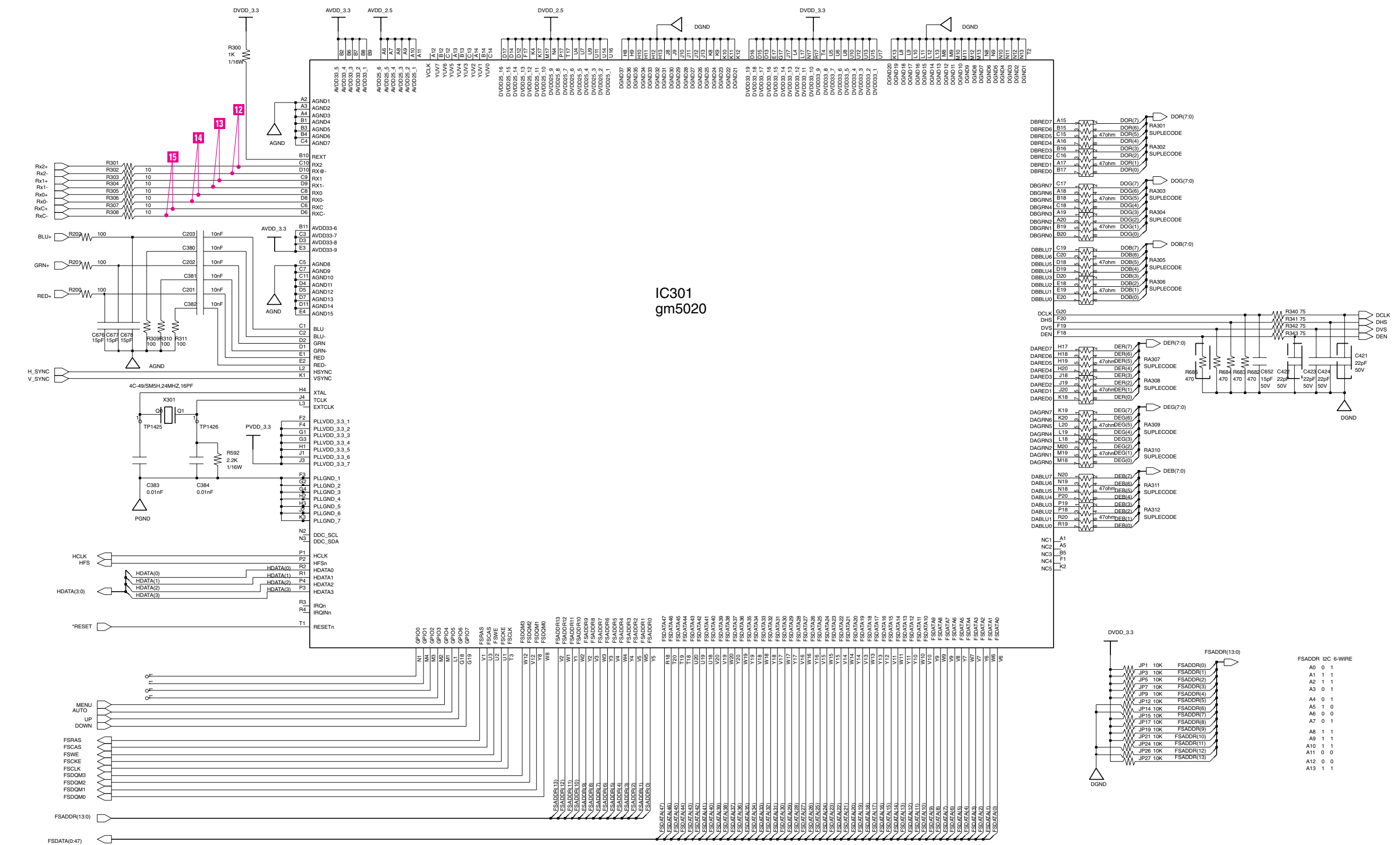


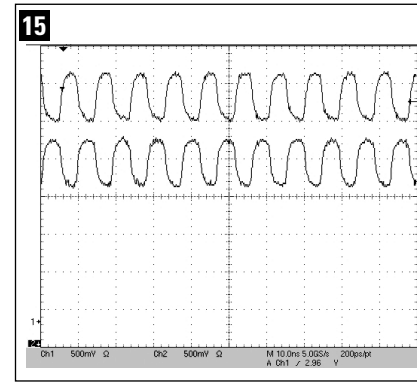
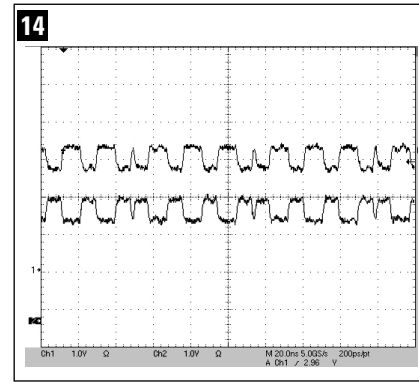
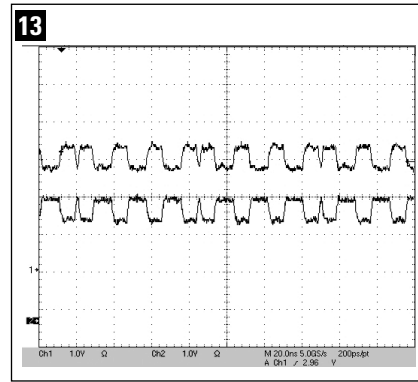
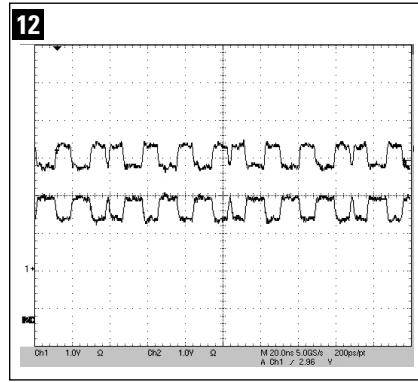
8-2 GH18P*



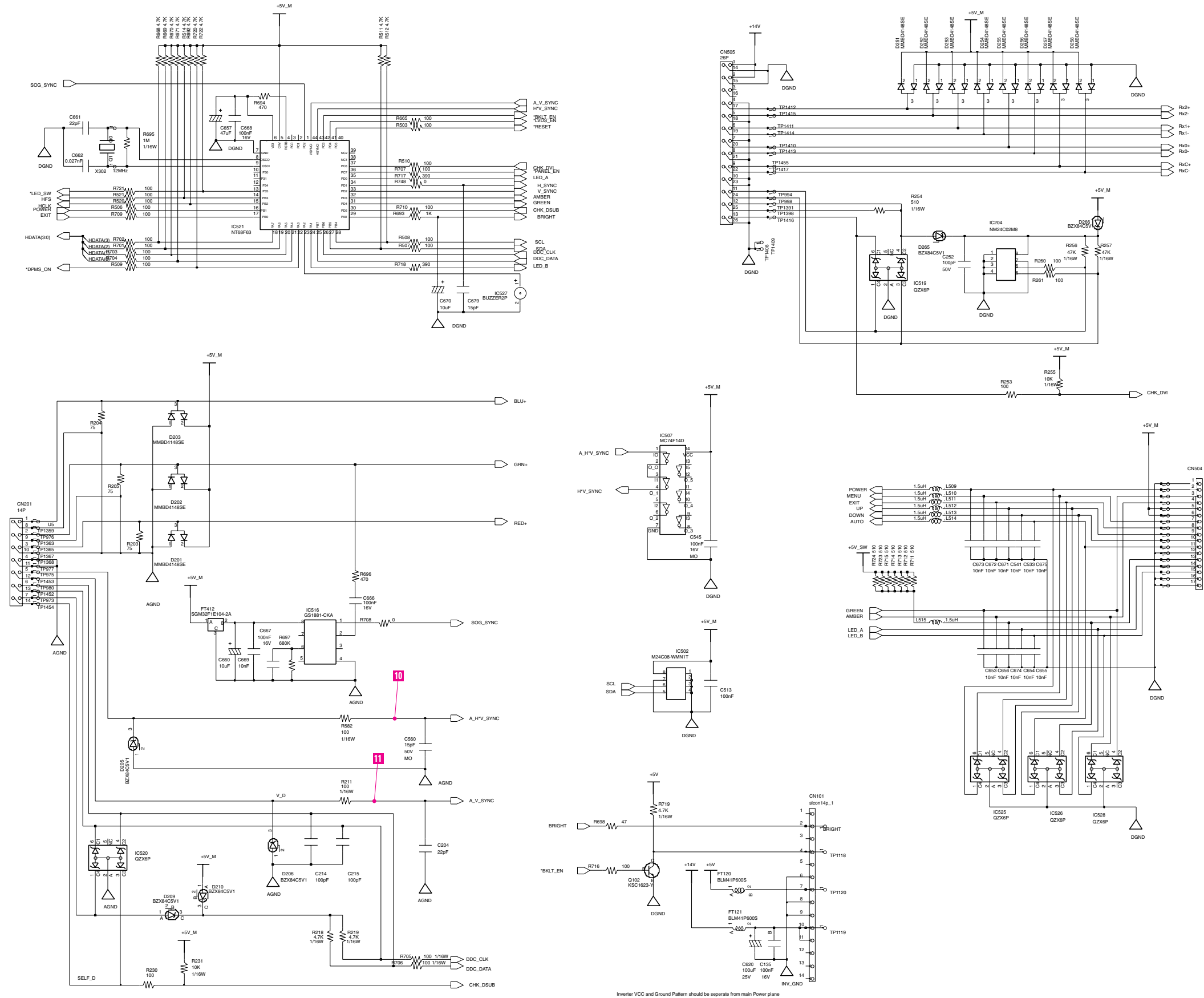
9 Schematic Diagrams

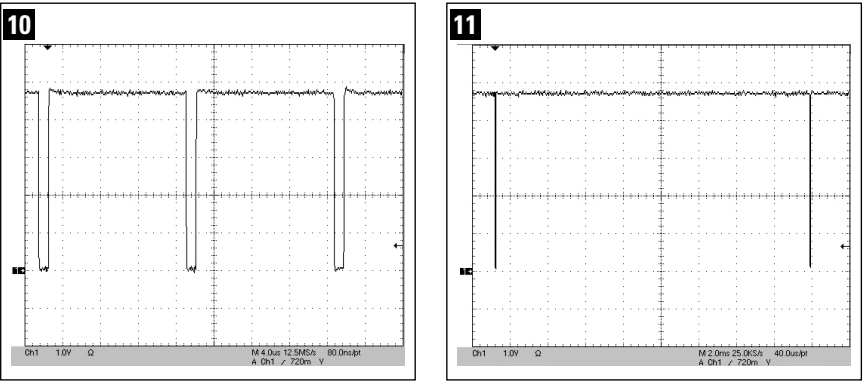
9-1-1 Porsche 17" Part Schematic Diagram

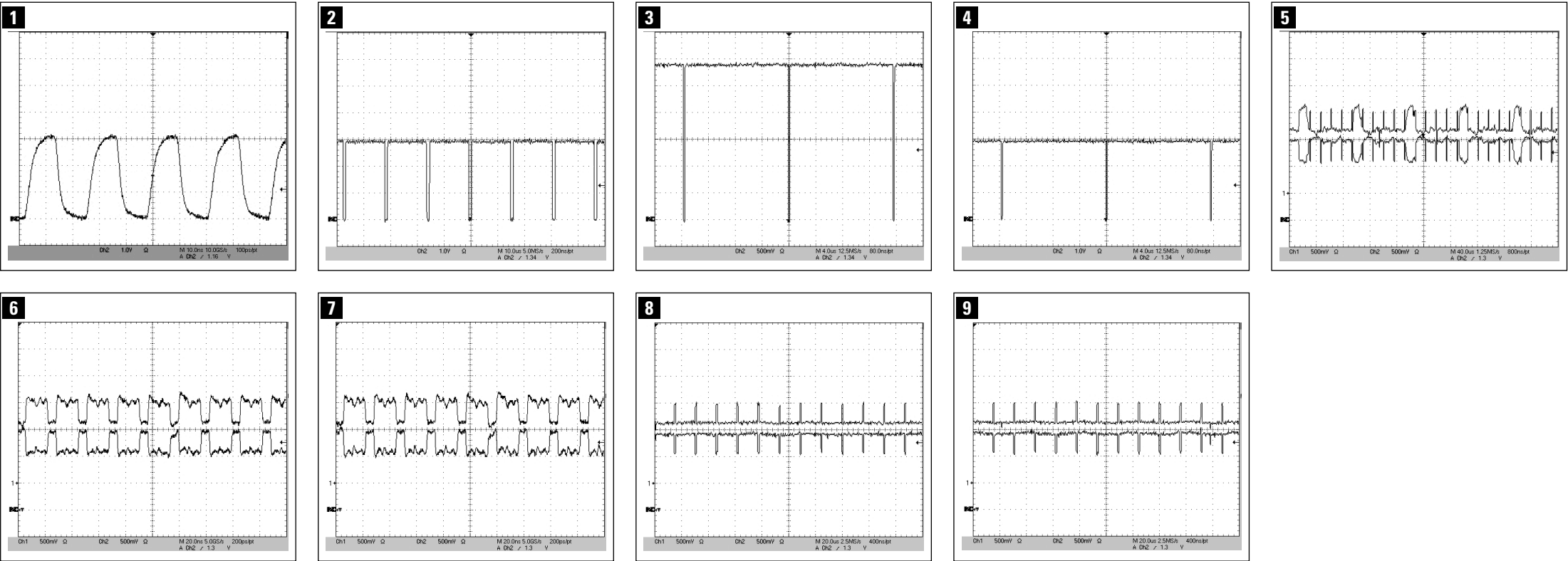




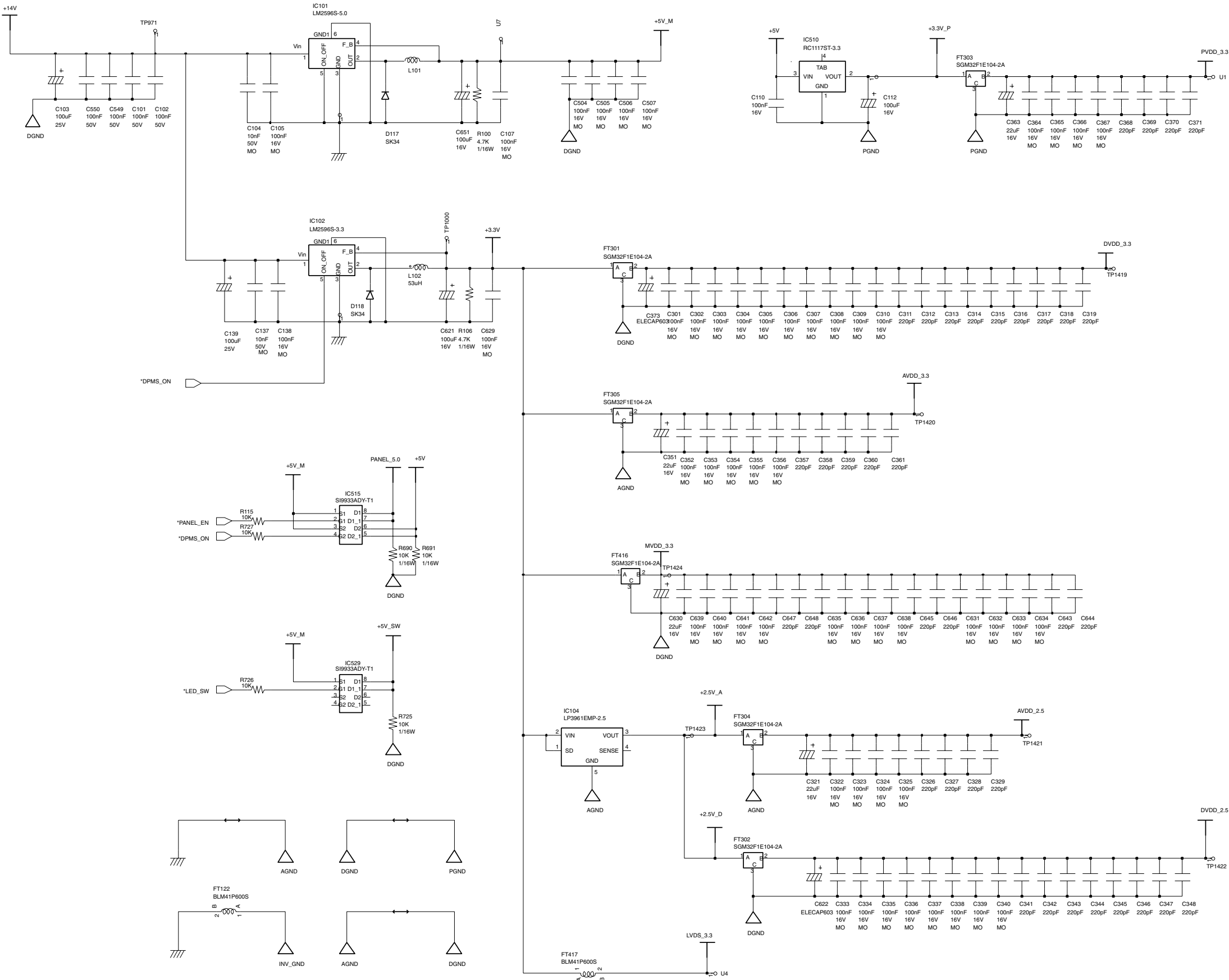
9-1-2 Porsche 17" Part Schematic Diagram



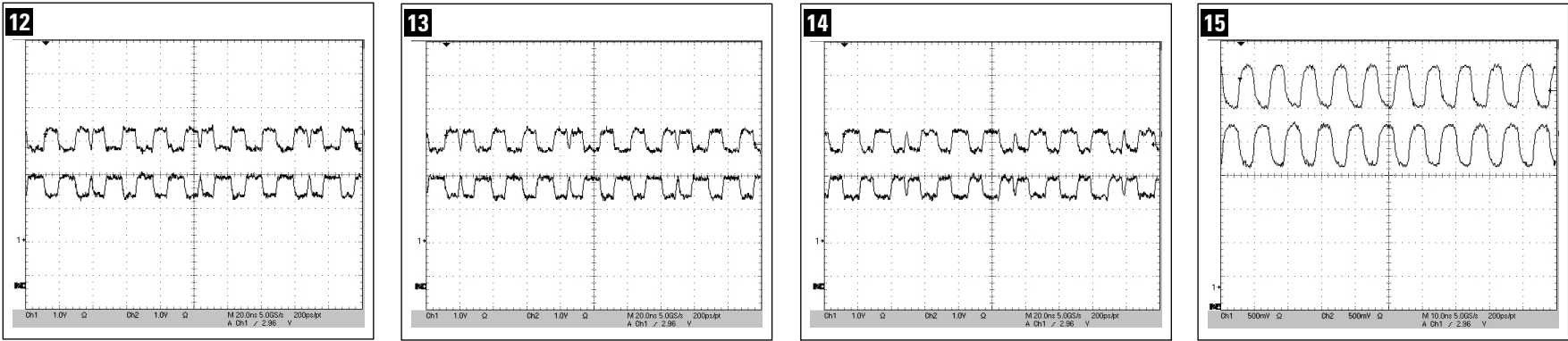




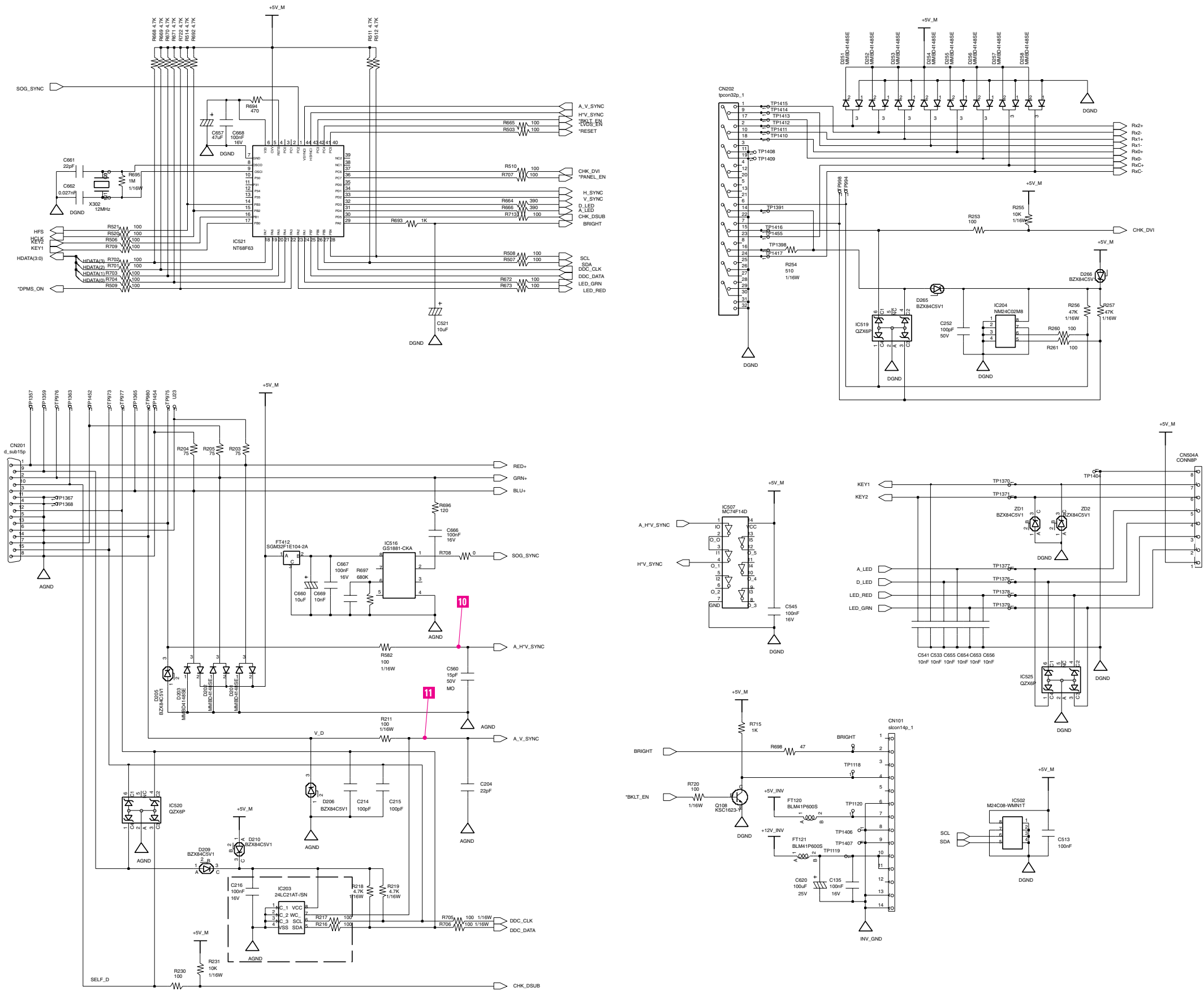
9-1-4 Porsche 17" Part Schematic Diagram

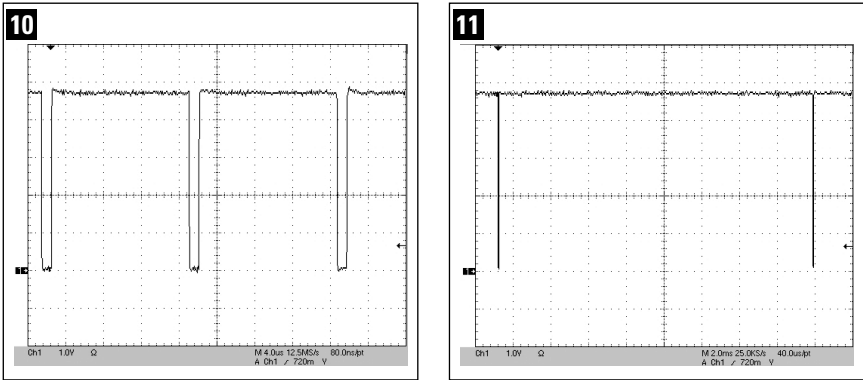




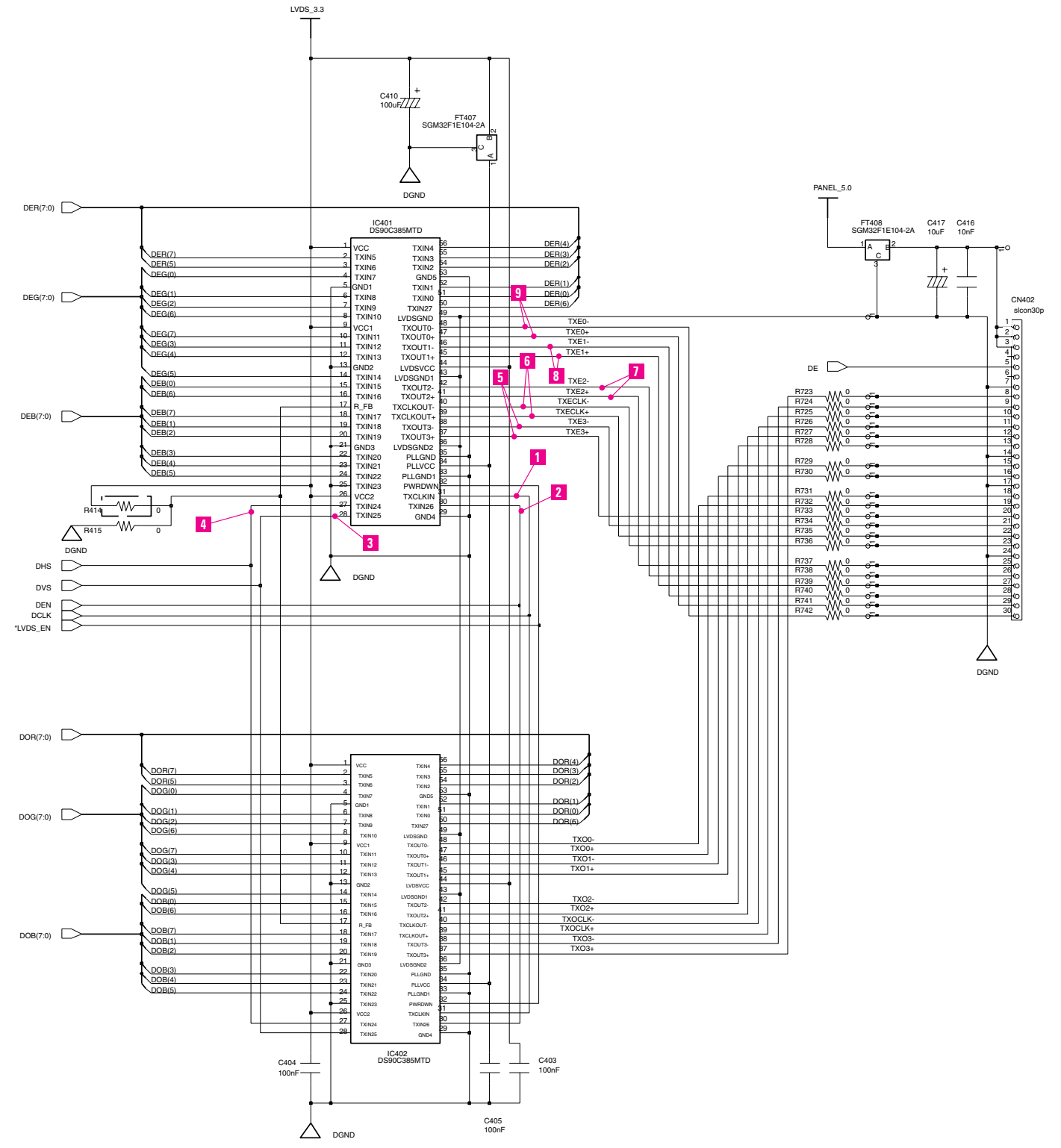
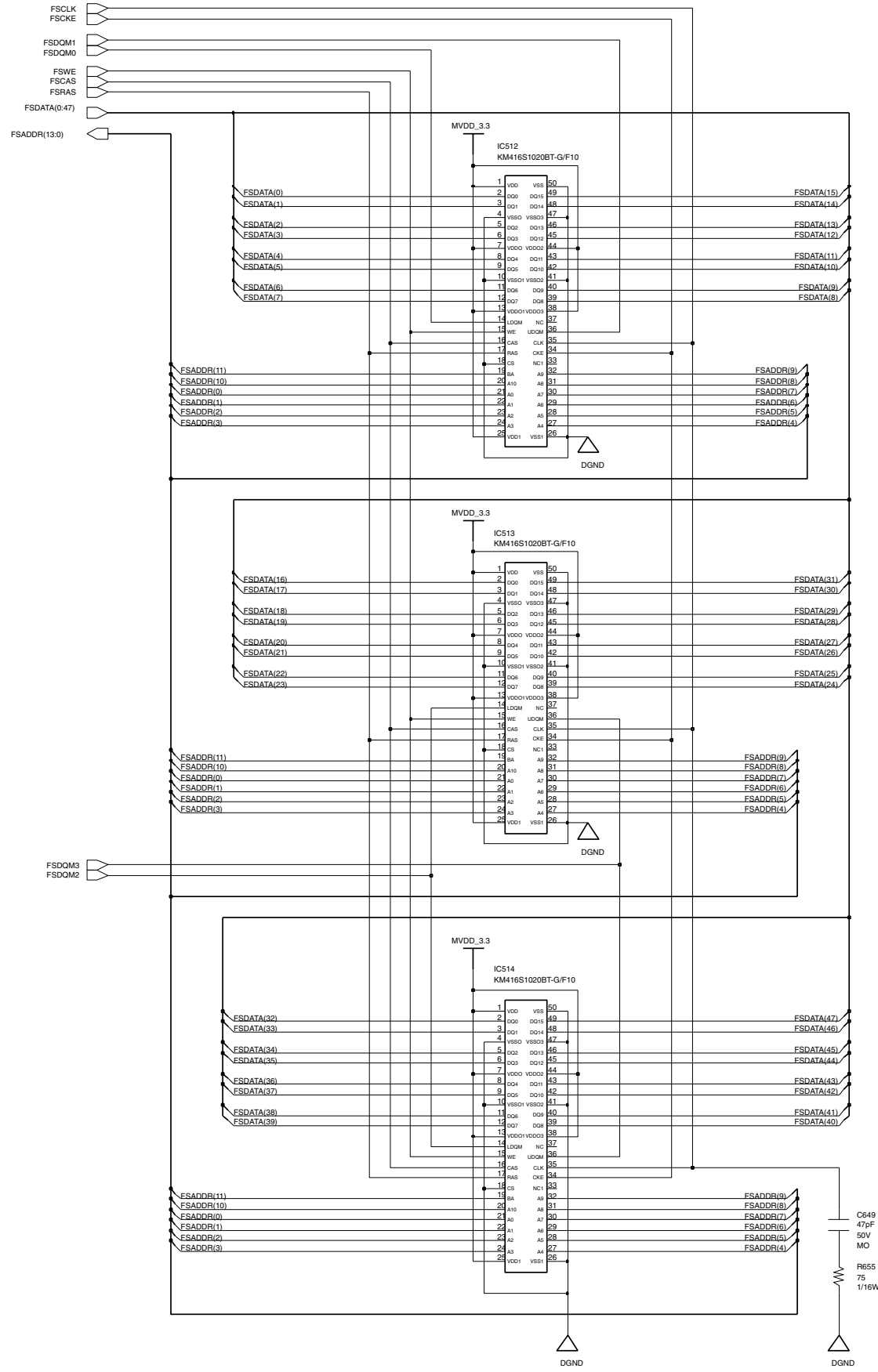


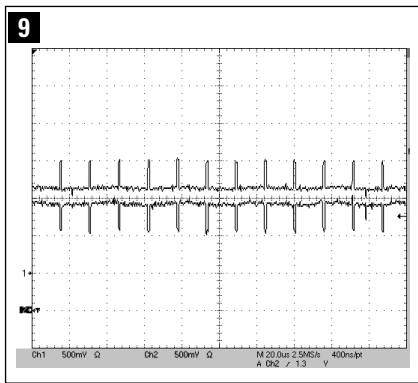
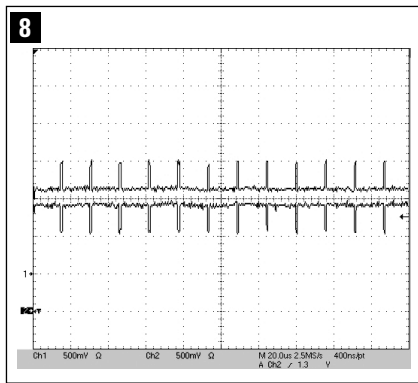
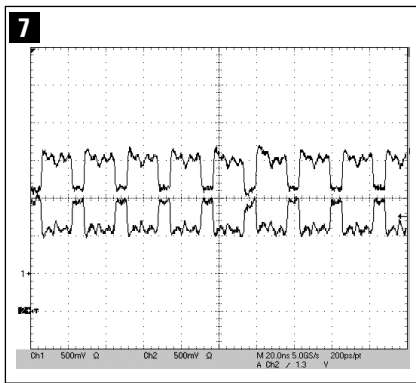
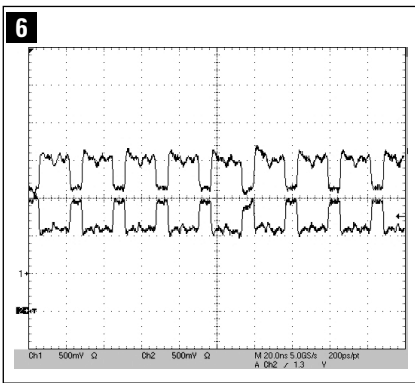
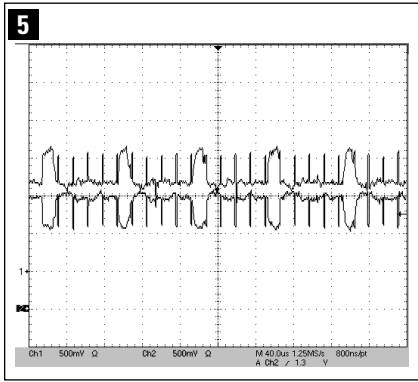
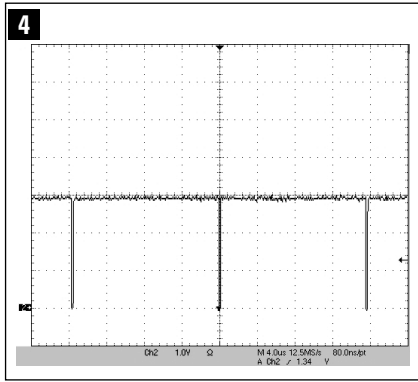
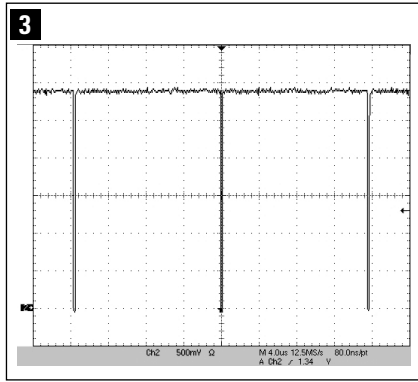
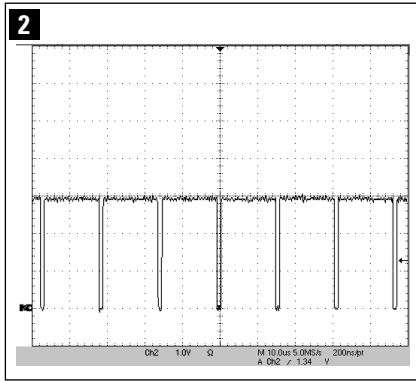
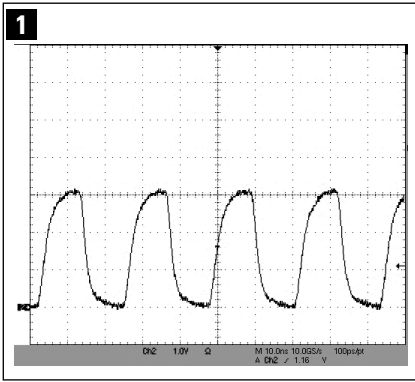
9-2-2 Narrow 18" Part Schematic Diagram





9-2-3 Narrow 18" Part Schematic Diagram





9-2-4 Narrow 18” Part Schematic Diagram

