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Training BDP 7100 Repair

Euroservice
Service Training
Theo Heijnen
December 2007

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Service policy

- Repair on Module level.
 - Module swap and scrap.



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Required test equipment for BDP7100.

- TV set with HDMI input 1080P
- Home cinema set with more audio inputs
- HDMI cat2 cable
- Component cable
- CVBS cable
- Audio CINCH cables
- Oscilloscope + Multimeter
- BD disc's to test the codec's
- SW upgrade disc



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Discs to test the player:

BD movies codec test:

1) Video codec: VC 1

Superman returns	Warner Bros	BDMV	BD-50	HD 1080P Presentation (16X9) 2.4:1	1080P	VC1

2) MPEG 2

Resident evil: Apocalypse	Sony Pictures Home Entertainment	BDMV		HD widescreen Presentation (2.40:1) 1920 X 1080P	1080P	MPEG-2

3) MPEG 4: AVC

The League of Extraordinary Gentlemen	20th Century Fox	BD-J	BD-25	AVC 16 MBPS 2003/color 110mins Widescreen 2.35:1 25GB single layer	1080P	AVC	English DTS-HD 5.1 Master lossless audio Spanish (5.1 dolby digital) French dolby digital)

4) BD+ & BD-J checking

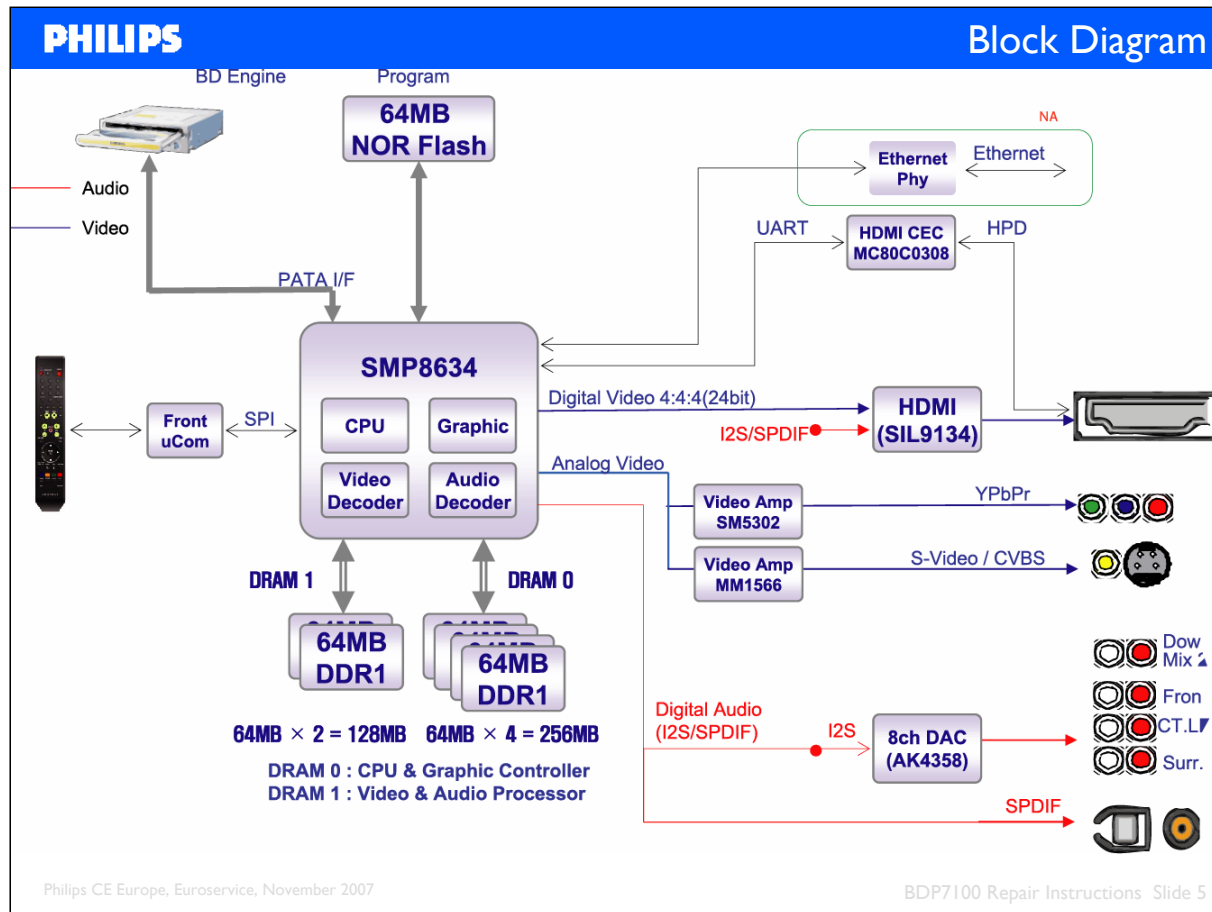
The Descent	LionsGate	BD-J	BD-50	1080P High Definition 16X9 Widescreen version 2005/color 99mins	1080P, 1080i, 480P, 480i	AVC, MPEG-2	English: PCM 6.1 English: Dolby Digital 5.1 EX
The Day after Tomorrow	20th Century Fox	BD+	BD-50	MPEG-4 AVC Video resolution: 1080p Aspect ratio: 2.35:1	1080P	MPEG-4 AVC	English: DTS-HD Master Audio 5.1 French: Dolby Digital 5.1 Spanish: Dolby Digital 5.1
Fantastic Four: Rise of the Silver Surfer	20th Century Fox	BD+	BD-50	MPEG-4 AVC Video resolution: 1080p Aspect ratio: 2.35:1	1080P	MPEG-4 AVC	English: DTS-HD Master Audio 5.1 English: Dolby Digital 5.1 French: Dolby Digital 5.1 Spanish: Dolby Digital 5.1
Cars	Disney / Buena Vista	BD-J	50GB Blu-ray Disc Two-disc set	MPEG-4 AVC Video resolution: 1080p Aspect ratio: 2.35:1	1080P	MPEG-4 AVC	English: PCM 5.1 (48kHz, 24-bit) English: Dolby Digital 5.1 French: Dolby Digital 5.1 Spanish: Dolby Digital 5.1
Pirates of the Caribbean: Dead Man's Chest	Disney / Buena Vista	BD-J	50GB Blu-ray Disc Two-disc set	Video codec: MPEG-4 AVC Video resolution: 1080p Aspect ratio: 2.35:1	1080P	MPEG-4 AVC	English: PCM 5.1 (48kHz, 24-bit) English: Dolby Digital 5.1 French: Dolby Digital 5.1 Spanish: Dolby Digital 5.1

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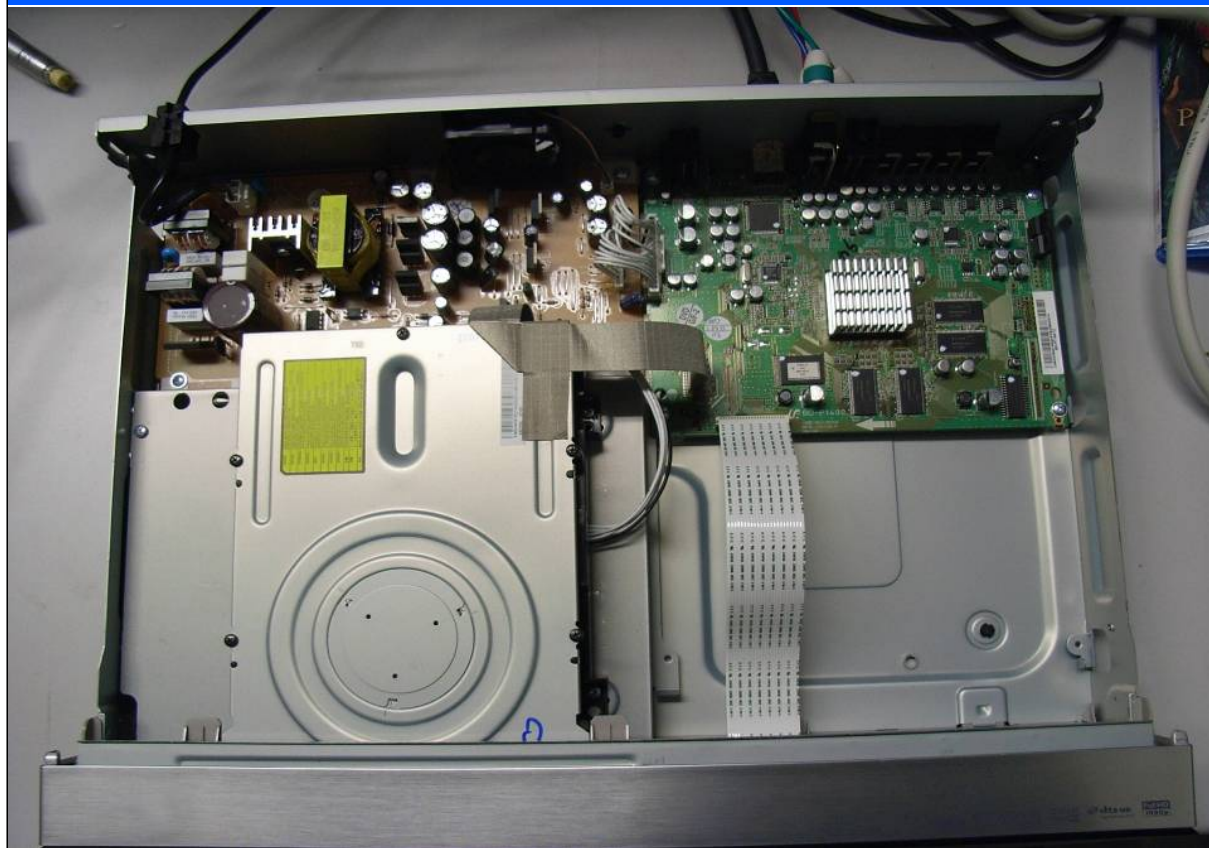


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Inside the set

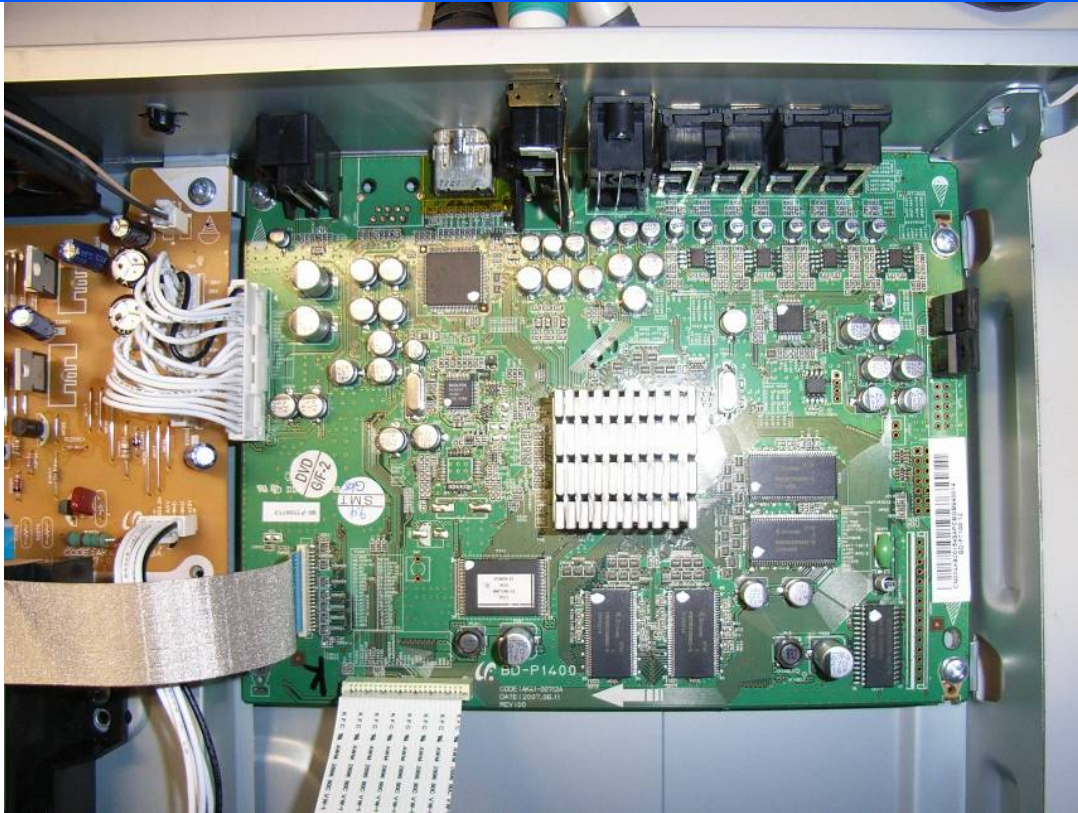


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Main Board



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Power Supply



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Loader



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Remove Loader

Cooling Pads on frame.
Don't remove!



Rear side of the Loader

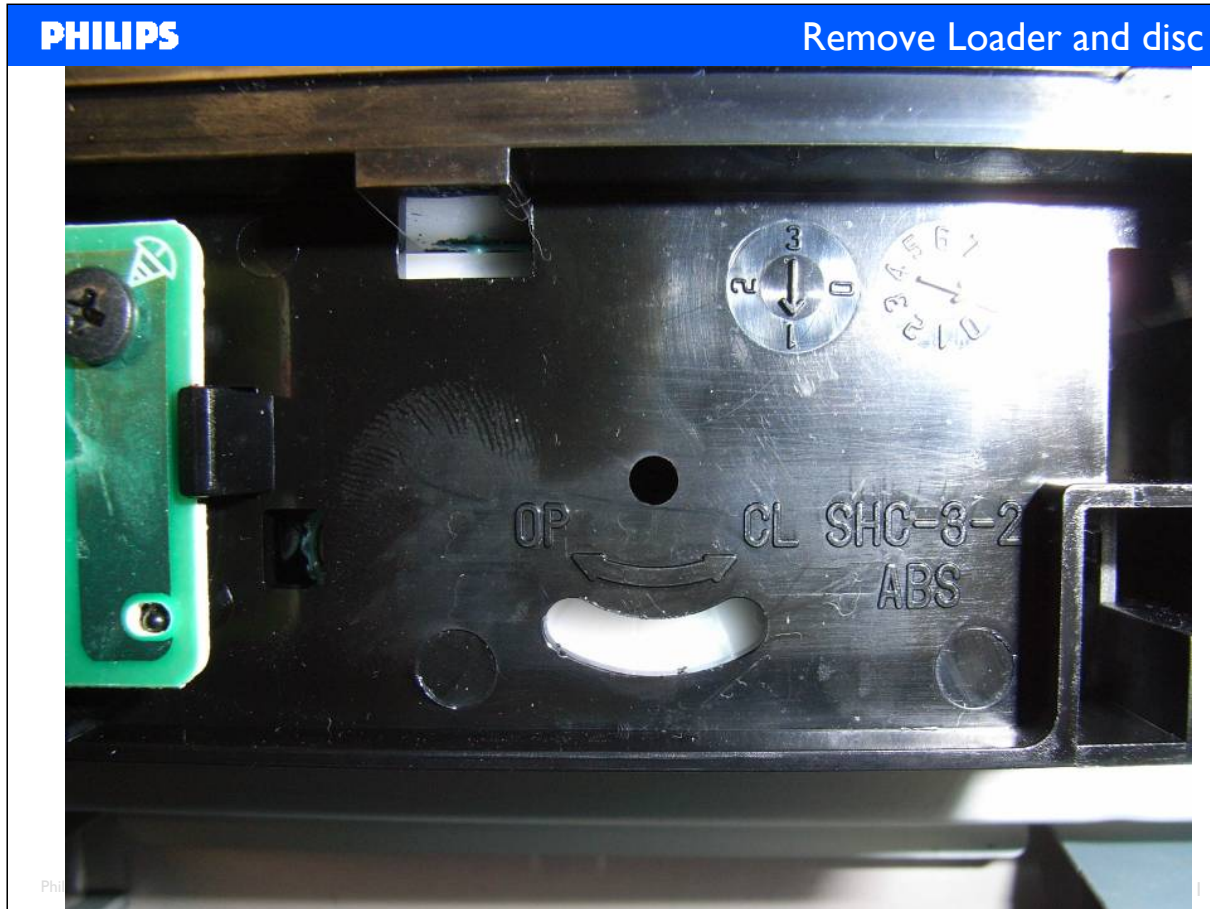
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To remove the disc in case of a complete malfunction of the loader:

Remove the 4 screws of the loader.

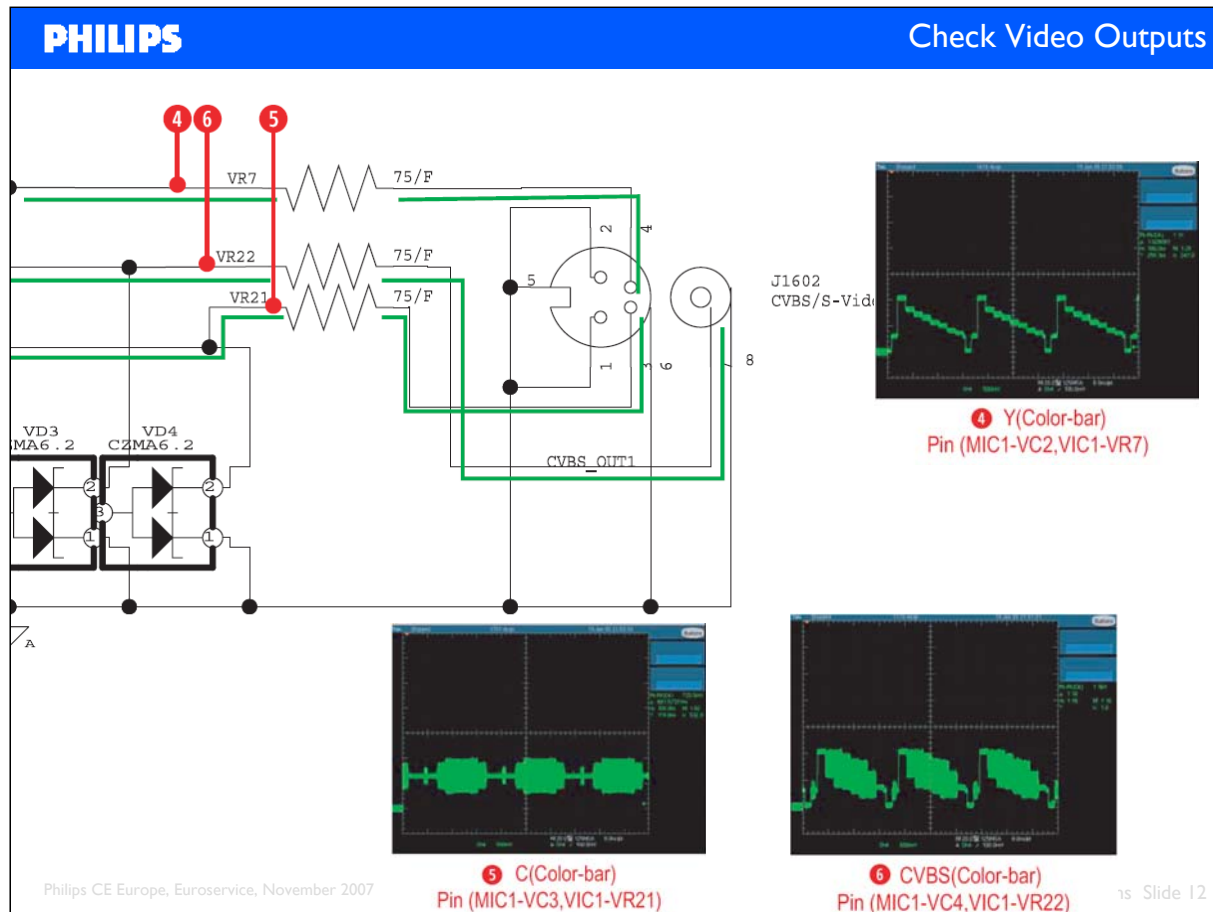
Release clips from the front panel and move the front panel a bit to front.

Loader can be removed completely.

With a screw driver the loader can be opened now. (Turn white wheel anti clockwise).

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Check Video Outputs

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VCC5V	1	ON	StBy	
VCC5V	2	5V	0	
GND	3	5V	0	
GND	4	gnd	0	
VCC3.3V	5	gnd	0	
GND	6	3v3	0	
A-9V	7	gnd	0	
A+9V	8	-15V	0	
GND	9	+12V	0	
FF_AL5V	10	gnd	0	
F_ON_OFF	11	+5V	+5V	
-28V	12	+4V	0	
GND	13	-26V	-26V	
VF+	14	gnd	0	
VF-	15	-18V	-22V	

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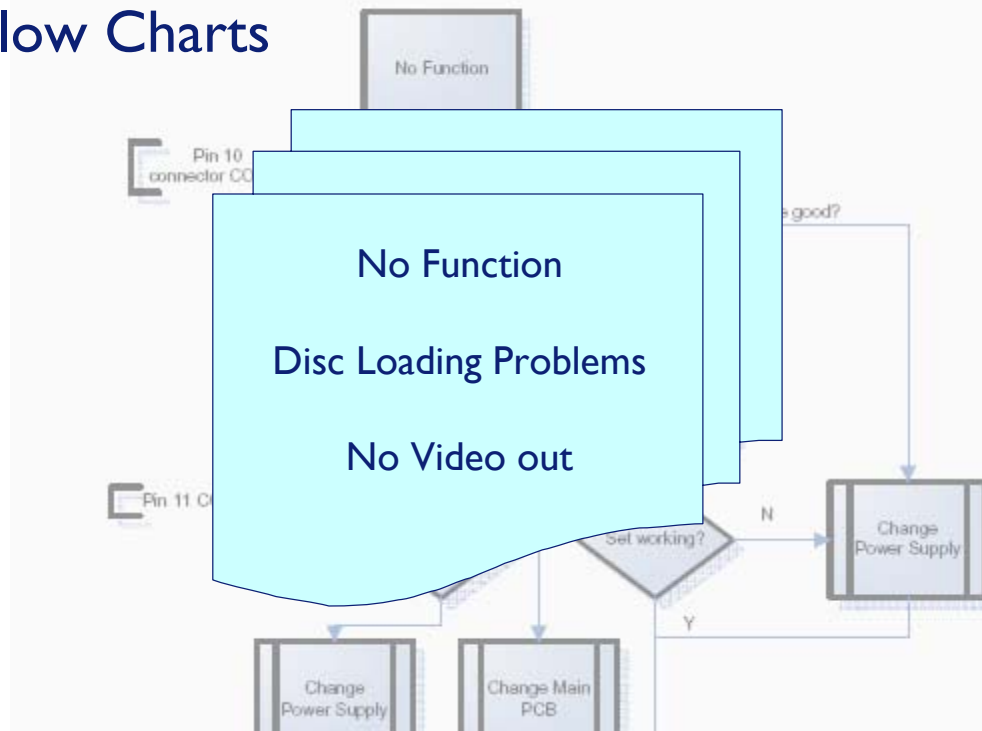
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Flow Charts



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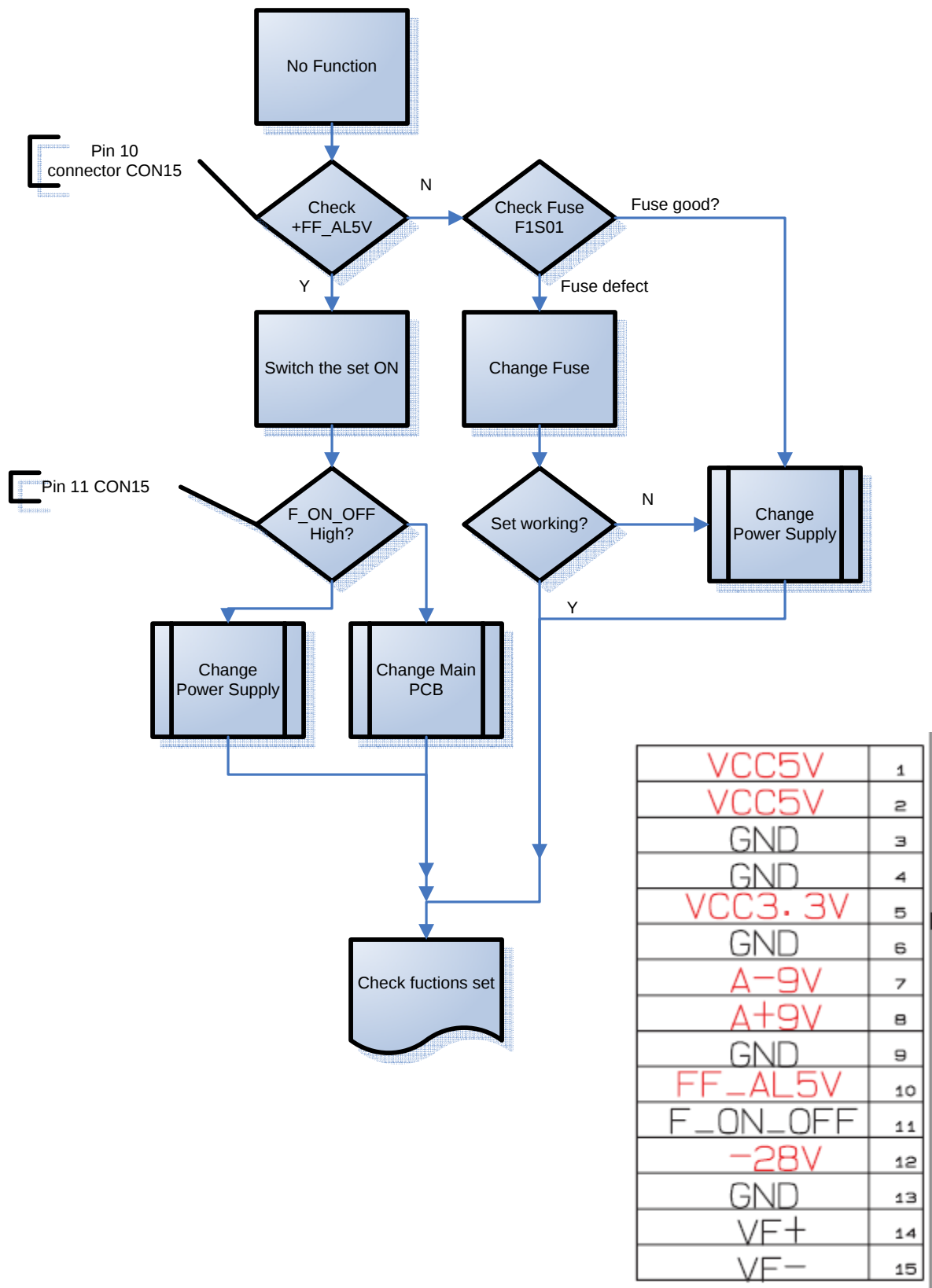
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Open the Flow Chart PDF.

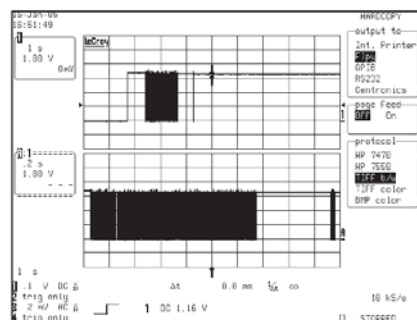
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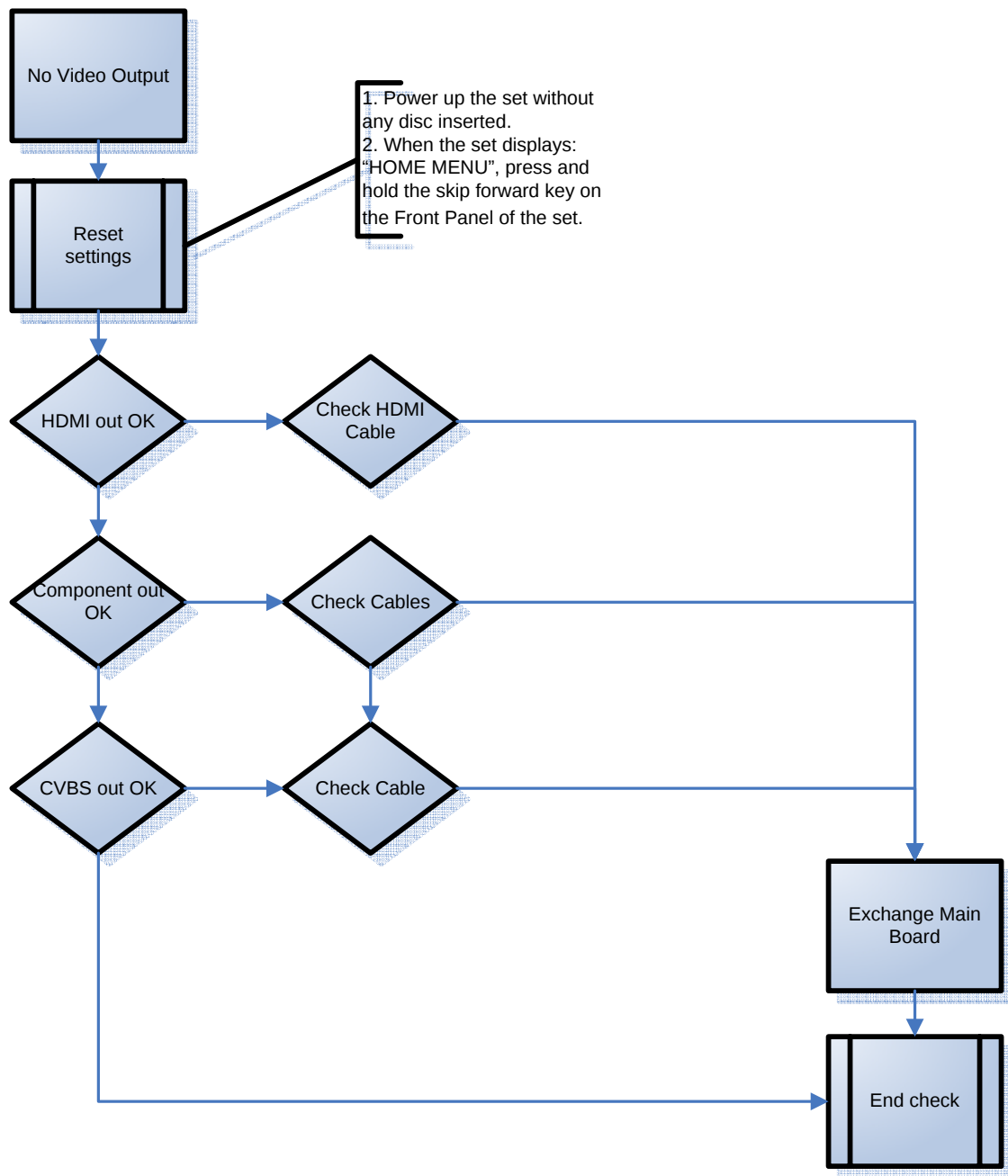
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CONN 15 Power Supply







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