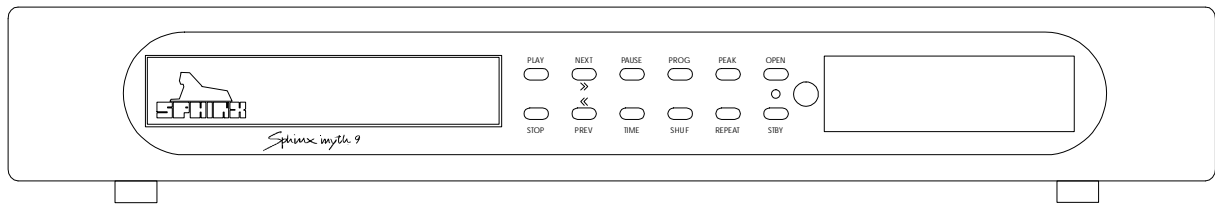


# SERVICE MANUAL

MYTH 9

COMPACT DISC  
PLAYER



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## The Sphinx Myth 9 design

This service manual will help you to optimally service and repair the Sphinx Myth 9 CD player.

The heart of this very special CD player is formed by the newest Philips CDM-12.4 transport mechanism.

Two independent Bitstream D/A converters will guarantee unsurpassed detailed audio reproduction.

A unique feature is that the output sections are of a totally discrete Class A design.

The "O core" power transformer uses completely separated sections for the digital and analogue supply. Combined with the integrated power line suppression filter this ensures an extremely high S/N ratio.

Almost all functions are accessible with the supplied Sphinx *Remote Control*.

To obtain the maximum quality from this CD player it is necessary to use it with top quality audio components, preferably with other Sphinx components.

**Please also refer to the User Manual of the Myth 9 for information about functions not described in this manual. It is important to familiarise yourself with the special functions, operation and possibilities of the Sphinx Myth 9.**

## 1. UNPACKING

Before leaving the factory every Myth 9 is subjected to stringent and extensive technical and exterior quality inspection.

This ensures you will enjoy many years of high quality audio performance from a perfect-looking product.

After unpacking your Myth 9 we therefore recommend you carefully check it for any transport damage.

Even if the component is in perfect condition you should still keep the packing materials. If you need to transport your Myth 9 at a later time it will be best protected by the original packing materials.

## 2. CONTACTING THE MANUFACTURER

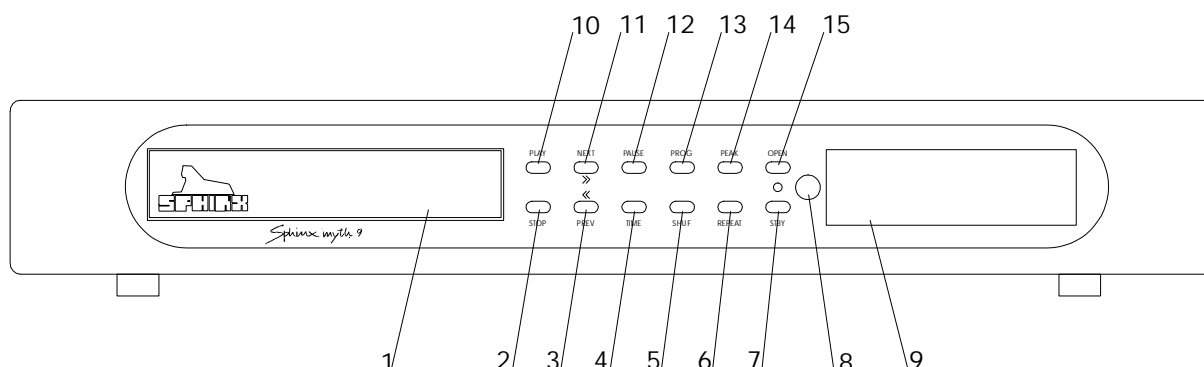
In case of any problem not covered in this manual or if you have other questions you may contact the **Sphinx International Service Department** in The Netherlands (local time: GMT +1h) during office hours at the following numbers:

Telephone	(+31) 35 602 0302
Fax	(+31) 35 602 2806
E-mail	audionI@euronet.nl

It is always very helpful and efficient if you have all relevant information about the specific product and the problem ready.

### 3. THE CD PLAYER AT A GLANCE

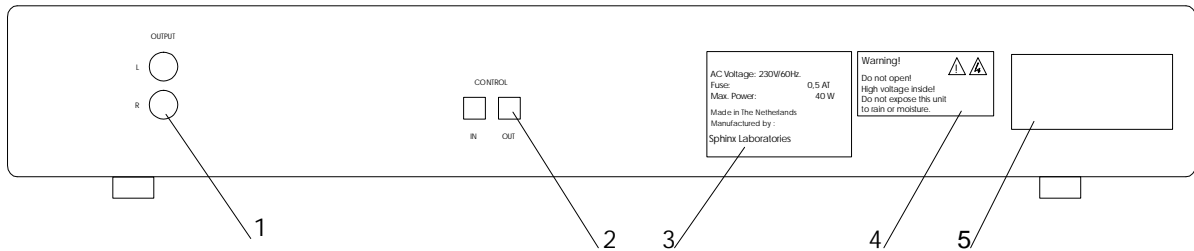
#### Front panel



1. **CD tray:** To be opened with the OPEN button. Place the CD here. To close: press the OPEN button or the PLAY button or softly push against the front of the tray.
2. **STOP:** To stop CD playback.
3. **PREV:** To select a *lower* number track. If you hold the button depressed it will activate a fast *reverse* search in the current track.
4. **TIME:** This button selects the timer mode (right-hand side of display):
  - Remaining Track Time,
  - Total Remaining Time,
  - Track Time.
5. **SHUF:** To select the Shuffle Play mode, which plays the tracks in random order. The SHUFFLE indication will light.
6. **REPEAT:** To activate the Repeat Play mode. The Play, Shuffle Play and Program Play modes will be repeated until you deactivate the function. The REPEAT indication will light.
7. **STBY:** To switch the CD player on and off. The LED next to the button indicates the selected function:
 

on	LED is off
off	LED is red
8. **Receptor window** for the IR signals from the Remote Control.
9. **Display:** This will show all important data (more information can be found on page 6)
10. **PLAY:** To start playback of the track indicated in the left-hand side of the display  
*Note:* If the CD tray is still open, it will close automatically.
11. **NEXT:** To select a *higher* number track. If you hold the button depressed it will activate a fast *forward* search in the current track.
12. **PAUSE:** To temporarily interrupt the CD playback. The display will show the PAUSE indication. Pressing this button again (or PLAY) will resume playback.
13. **PROG:** To select the Program mode: this enables you to play only certain selected tracks. The display will show »PROGR« and the PROGRAM indication will blink.
14. **PEAK:** Pressing this button during STOP activates the Peak Search mode. The PEAK indication will light. Pressing this button during Play mode activates the Fade mode.
15. **OPEN:** To open and close the CD tray.

## Rear panel



1. **OUTPUT L and R:** Connect this to the CD input of the amplifier.
2. **Control IN and OUT:** To connect the optical cable from the pre-amplifier and to the next Sphinx component (e.g. tuner).
3. **Manufacturer's label:** This shows important data for the component, such as serial number and mains power voltage.
4. **Warning!** This shows important information about the safety regulations for the Myth 9.
5. **AC Power:** Connect the mains cable to a mains power outlet (100 - 240 VAC). Mains power switch for the CD player. The mains fuse is placed behind the cover.

## 4. OPERATION

Connect the mains cable to a mains outlet.

Once you have finished connecting all components, you can power on the Myth 9 with the mains switch **O/I** (23).

The STBY LED (13) will light. The CD player is now in standby mode.

From now on you should switch the CD player on or off with the **O•STBY** button (13).

That way, all circuits will remain at optimum operating temperatures and the audio quality will be 100% immediately after switching on. Additionally it significantly increases the life span of the component.

### Power on

Switch the Myth 9 on with the **O•STBY** button. It automatically checks whether there is a CD in the tray (the display shows »READ«). If there is no CD the display will show »noDISC«.

### Playing a CD

Press the **O•OPEN** button (12): the tray opens. Place a CD in the tray and close it with the **O•OPEN** button (or the **O•PLAY** button or by gently pushing the tray inwards).

When the tray is closed the display shows »READ« after which you will see the total number of tracks (max. 99, left) and the total playing time of the CD (right) in minutes:seconds. The lower horizontal row of numbers indicates all tracks that have not been played (in this case all of them).

With a press on **O•PLAY** you start the playback of Track 1. The display now shows the track number (left) and the track's playing time from the start (right). This last indication will increase as long as the CD is playing. All tracks will be played sequentially in the normal order.

### Different time display

With the **O•TIME** button you may select between three different time displays. TRACK TIME is the default. With each press on the button you then select in this order:

- REM TRACK TIME: remaining track time or
- TOTAL REM TIME: remaining CD time or
- TRACK TIME: track time from start of play.

### Playing a different track

If you would like to play another track then you may select it in a number of ways.

- Each press on the **O•NEXT** button will select the *next* (higher number) track.

*Example:* To select track 5 while track 1 is playing depress the **O•NEXT** button 4 times. The display shows the new track number (left) and in the **1-15+** line the numbers from track 5 to the last will be lit.

- Each press on the **O•PREV** button will select the *previous* (lower number) track.

From track 1 you select the last track on the CD with one button push.

The display shows the new track number (left) and in the **1-15+** line the numbers from the current track to the last will be lit.

- From the Remote you may directly select the track number with the **O•1-0** buttons (for more information, see page 10).

### Playing tracks in a different order

Normally the tracks are played in the order of the CD. There are however three modes that allow you to change the playing order and even can prevent tracks from playing altogether.

The three modes are Program Play (PROG), Shuffle Play (SHUF) and Repeat Play (REPEAT).

## Program Play (PROG)

With Program Play you can change the playback of a CD:

- Only play the tracks you want to hear (and thus skip the others).
- Play certain tracks a number of times.
- Change the complete playing order.
- Select those tracks that exactly fill one side of a tape.

To do this you first have to select the wanted tracks and program them into memory. Then you can start Program Play mode.

*Note:* Tracks will be played in the order of programming.

Programming is only possible when the CD has stopped (STOP). If you press the  $\odot$ -PROG button during Play mode the display will show » GO TO STOP «, while nothing further will happen.

### Programming tracks

- Press the  $\odot$ -PROG button.
- The display shows »PROGR« and the PROGRAM indication (right) blinks.
- Select the first track with the  $\odot$ -NEXT or  $\odot$ -PREV button.

The display shows under TRACK the track number.

- Press the  $\odot$ -PROG button to store the track in memory.

The display will show:

Under TRACK: the programmed tracks (in this case 1...).

Under TOTAL TIME the total playing time of the program.

In the 1-15 line all the selected tracks.

*Note:* To play the selected track more than once, press the  $\odot$ -PROG button the required number of times.

- Select all other tracks with the same method.
- After each selection the display will be updated.
- Note:* You can program up to 30 tracks. If you try to program more the display will show » FULL «.
- Note:* If you have selected a wrong track you can not delete it from the program. You then have to press the  $\odot$ -STOP button twice and redo the whole Programming procedure.

### Playing the programmed tracks

After you have finished programming the tracks you can start playing the program.

- Press the  $\odot$ -PLAY button. The PROGRAM indication (right) will light and playing starts with the track that has been programmed first. All selected tracks will then be played in the order of programming.

- You may also press the  $\odot$ -PAUSE button. The CD player first locates the start position of the first programmed track and then selects Pause mode. This might be handy when recording a tape. You first can select the recorder to record-ready and position the tape at the correct position. You may start Program Play with another press on the  $\odot$ -PAUSE button.

*Note:* If you select the TOTAL REM TIME display with the  $\odot$ -TIME button the display will show the remaining time for the program.

### To stop Program Play

To temporarily stop Program Play: press the  $\odot$ -STOP button *once*. Pressing the  $\odot$ -PLAY button will resume Program Play.

To stop Program Play *completely*: press the  $\odot$ -STOP button *twice*.

The display then will show the same CD data as right after placing a new CD in the tray.

## Shuffle Play (SHUF)

The Shuffle Play mode lets you play the tracks in random order during Play and Program Play modes. The  $\odot$ -SHUF button activates this mode (the SHUFFLE indication will light) and random play will start immediately.

At any time you may de-activate this mode with another press on the  $\odot$ -SHUF button. The playback will continue and after the current track the next track will now be played and not a random track.

## Repeat Play (REPEAT)

The Repeat mode will repeat the selected Play mode: Play, Program Play and Shuffle Play. There are two options.

Repeat 1: Play will be repeated once.

Repeat: Play will be repeated continuously.

You may select the Repeat 1 mode by pressing the  $\odot$ -REPEAT button once: the REPEAT1 indication will light.

With a second press you select the Repeat mode: the REPEAT indication will now be lit. Another press de-activates the mode.

**To temporarily halt Play (PAUSE)**

All Play modes can be temporarily interrupted with the ○•PAUSE button. Another press on this button (or on the ○•PLAY button) will resume Play mode.

**To stop Play (STOP)**

Pressing the ○•STOP button during any mode will de-activate this mode completely, the CD will stop and the display will show the same CD data as right after placing a new CD in the tray.

At any time you can also press the ○•OPEN button: all modes will stop immediately and the tray will open.

**Power off**

You switch the Myth 9 off (to stand-by) with the ○•STBY button (13).

**Special modes for recording CD's**

Recording a CD is highly simplified with two special modes: **Peak** and **Fade**. The first will automatically find the loudest signal level on the CD, the second enables you to fade tracks in and out.

The ○•PEAK button (10) activates the:

Peak mode when the CD has stopped (STOP)

Fade mode when the CD is playing.

**The PEAK mode**

In Peak mode the CD player scans and analyses the CD (the PEAK indication will blink). Finally the display will show under TRACK the track number and under TRACK TIME the time code of the loudest part on the CD.

About 3 sec of this part will then continuously be repeated (the time display will fallback to the starting point) and the signal is sent to the output.

You can now simply adjust the recording level of the recorder to the maximum value. So you don't have to worry about sudden signal peaks causing distortion or noise caused by too low a recording level!

You may de-activate the Peak mode by pressing the ○•PLAY, ○•STOP or ○•OPEN button.

**The FADE mode**

With the Fade mode you can fade-out a track (slowly decrease the level to 0), create a longer space between two tracks and fade-in a track.

During Play mode (with the correct track and at the correct moment!) press the ○•PEAK button. The display will show sequentially (this will take some 5 seconds):

» FADE ≡ «

» FADE = «

» FADE – «

At the same time the signal level is slowly reduced to 0 (fade-out) and the Pause mode is selected. The display shows the PAUSE indication (left), the track number and the time at which the track has been halted.

To resume playback you have two options:

1. Pressing the ○•PEAK button resumes playback and the display will show (this takes some 5 seconds):

» FADE – «

» FADE = «

» FADE ≡ «

At the same time the signal level is slowly increased from 0 to the previous level (fade-in).

2. Pressing the ○•PAUSE or ○•PLAY button will extinguish the PAUSE indication and the track will resume playback, only now with the level immediately at maximum: there is no fade-in!



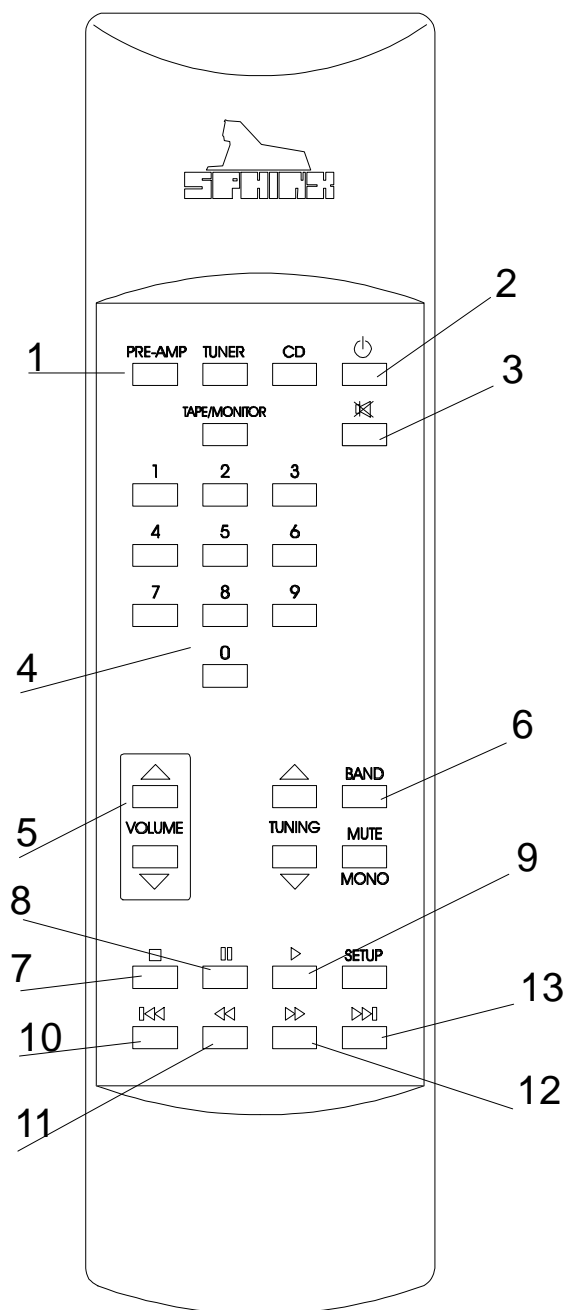
## 5. THE SPHINX REMOTE CONTROL

This single Sphinx Remote Control lets you control all functions: not only of the Myth 9 but also of all other Sphinx equipment.

Only the following buttons on the Remote apply to the Myth 9 CD player (when pressed the »(((O« will light in the lower left-hand side of the display), the other buttons will not function:

### Buttons

1. **CD:** To select the CD player. All buttons pressed hereafter will control only the CD player functions.  
*Note:* The TUNER and PRE-AMP buttons will not function.
2. **STANDBY:** Only works if you use a Sphinx (pre-)amp and the Myth 9 is connected via the optical cable
3. **MUTE:** Only works if you use a Sphinx (pre-)amp, you don't have to pre-select PRE-AMP.
4. **1 - 0:** With these numbered buttons you may select each CD track directly. To input a two digit number (e.g. 16): shortly depress the button for the first digit (the display shows »1—«) and immediately select the second digit (6). If you wait too long the player will select track 1.  
*Example:* To select track 16 press 1 and 6.
5. **VOLUME:** Only work if you use a Sphinx (pre-)amp, you don't have to pre-select PRE-AMP.
6. **BAND:** This button has the same function as the OPEN button on the front panel (12).
7. **STOP:** This button has the same function as the STOP button on the front panel (3).
8. **PAUSE:** This button has the same function as the PAUSE button on the front panel (6).
9. **PLAY:** This button has the same function as the PAUSE button on the front panel (6).
10. **PREV. TRACK:** This button has the same function as the PREV button on the front panel (5).
11. **REV. SEARCH:** This button has the same function as when you hold the PREV button (5) depressed.
12. **FWD. SEARCH:** This button has the same function as when you hold the NEXT button (4) depressed.
13. **NEXT TRACK:** This button has the same function as the NEXT button on the front panel (4).



## Operation

The Sphinx Remote is used with several different models and can therefore transmit different control codes, depending on which model has been selected with the select buttons (1).

*Important: Always press the  $\odot$ ·CD button before you send a command (even if you only have one Sphinx component).*

Otherwise it is possible that, although the Remote sends a signal, nothing happens because the transmitted signal is not 'recognised' by the component.

You may check this yourself: if you press a button and the symbol »((( $\odot$ « in the display does *not* light, the signal is not recognised.

Indoor the Remote may be used up to a distance of 7 meter, provided there is no strong sunlight in the room and if you aim the Remote at the component. Always aim the Remote straight at the front panel of the component, the maximum offset angle is 30°.

## Selecting without switching

Suppose, for instance, that you would like to select the tuner to Radio 4 without interrupting CD playback.

In that case you momentarily depress (not longer than 0.5 sec) the  $\odot$ ·TUNER button and the  $\odot$ ·'4' button. The same procedure is used for the other system components.

If you depress the select button longer than 0.5 sec, the system will select a different signal source (in our example you will then hear the tuner playback).

## Batteries

The two batteries have a life span of approximately one year during normal use, but shorter when used more intensely.

Replacement batteries: 1.5 V, model *micro* or *penlite* or *LR03* or *AAA* or *AM4* (one of these codes is indicated on the packaging and the batteries). You may also use rechargeable 1.5 V batteries.

*Note: Position the new batteries exactly as shown in the illustration at the bottom of the battery compartment, otherwise Remote will not work!*

## Encountering problems...

### Remote Control does not work

Wrong component selected	Select the correct one
Distance to component exceeds 7 m	Use Remote at closer range
Angle between Remote and component exceeds $\pm 30^\circ$	Decrease angle
Sensor window on front dirty	Clean window
Batteries empty or incorrectly placed	Use new batteries or replace the old ones correctly
Strong (sun)light in room	Shade off light source
Component is not switched on (!)	Switch it on

### Component reacts differently than expected or not at all

Wrong component selected	Select the correct one
Component or Remote does not function	Check component with its original remote
Batteries in Remote empty	Use new batteries

## 6. TECHNICAL SPECIFICATIONS

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Transport D/A converter	Philips CDM-12.4 1-Bitstream, TDA 1315 H + 2x TDA 1305 DAC Completely independent for each channel
Bandwidth Phase response error	0 – 20,000 Hz (+0/-0.2 dB) <0.5°
THD+N (IHF-A) IMD	<0.006% (2 <sup>nd</sup> harm., 10 – 20,000 Hz) <0.01%
S/N ratio (IHF-A) Channel separation	>100 dB >94 dB
Output section Outputs Impedance	Class AB, discrete throughout 2x cinch (gold-plated) <10 ohm
Sphinx Control	1x optical IN, 1x optical OUT
Remote Control	Sphinx System full function
Power supply	Internal, completely separate sections for digital and analogue with integrated power line suppression filter
Supply capacitance	16.280 µF total
Power consumption Dimensions (h x w x d) Weight	11 W (9 W stand-by) 75 x 434 x 330 mm 7 kg

This unit conforms to the EMC interference regulations issued by the EU and to the CE standards.  
This unit complies with safety regulation VDE 0860 and therefore with international safety regulation IEC 65.

Technical specifications may be changed by SPHINX without prior notice if technical developments make this necessary.

**7. ADJUSTMENT PROCEDURES**

The Myth 9 has *no* parameters needing adjustment!

Any specific and particular serviceable items may be found in the ensuing Problems and Solutions table on the next page.



**9. DIAGRAMS AND PARTS LIST**

The next pages contain a complete set of schematic drawings including the associated parts list (if applicable).

## General Overview Myth 9

DAC  
dac.sch



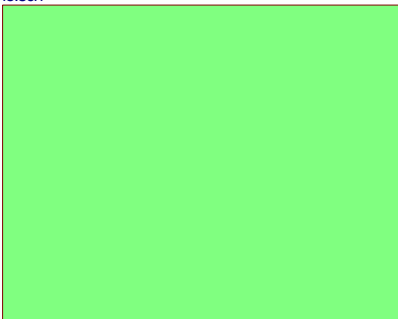
Display  
frontsch



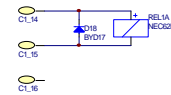
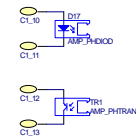
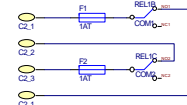
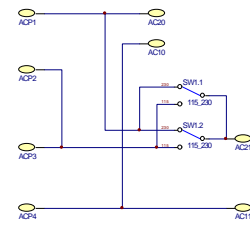
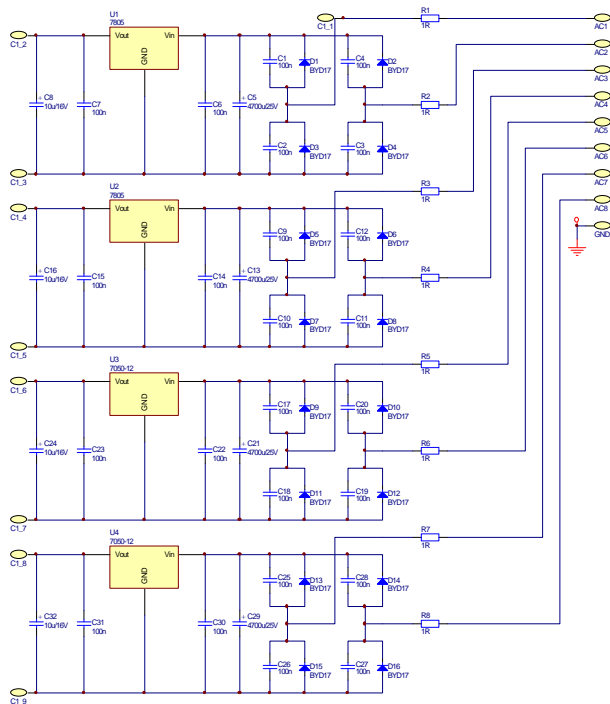
Power supply  
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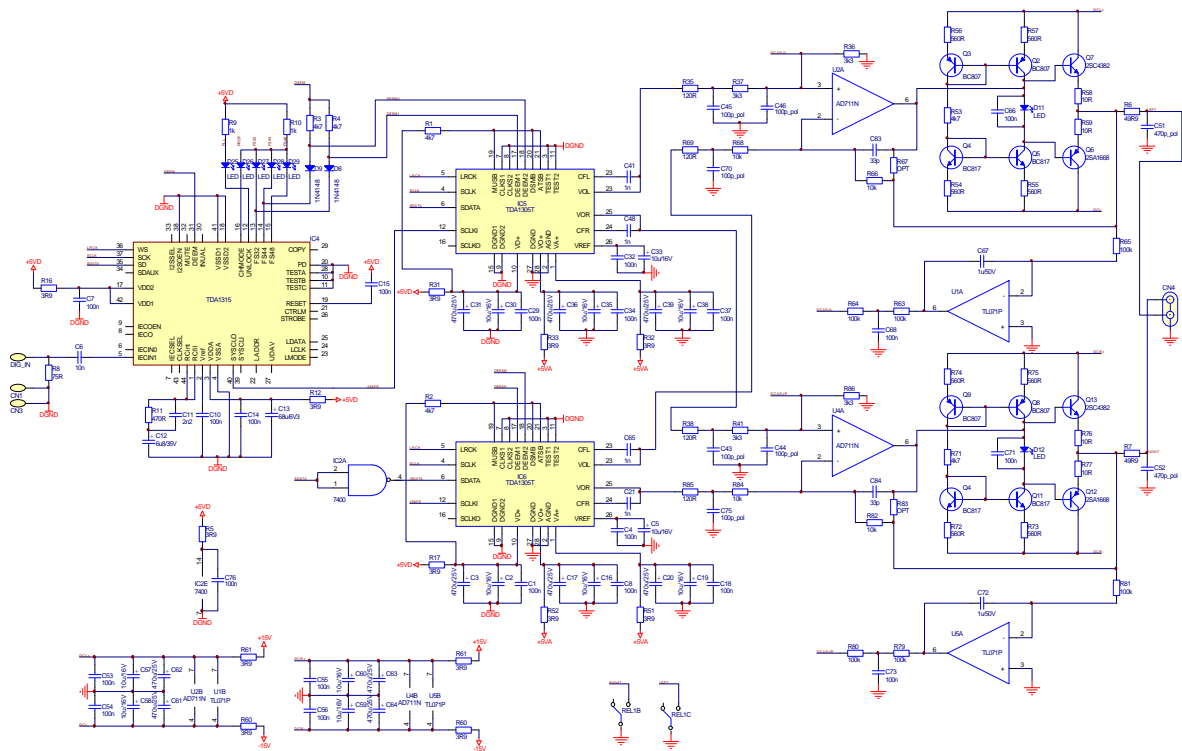
In- and output  
io.sch

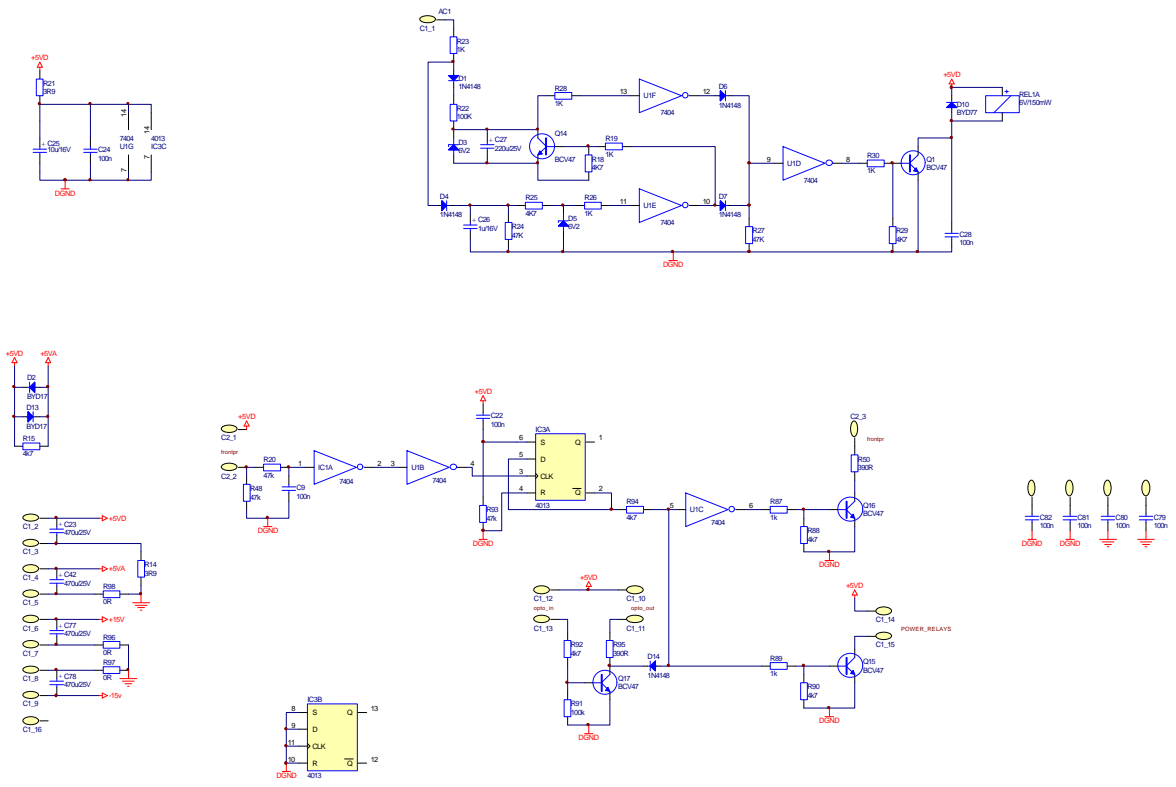


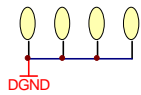
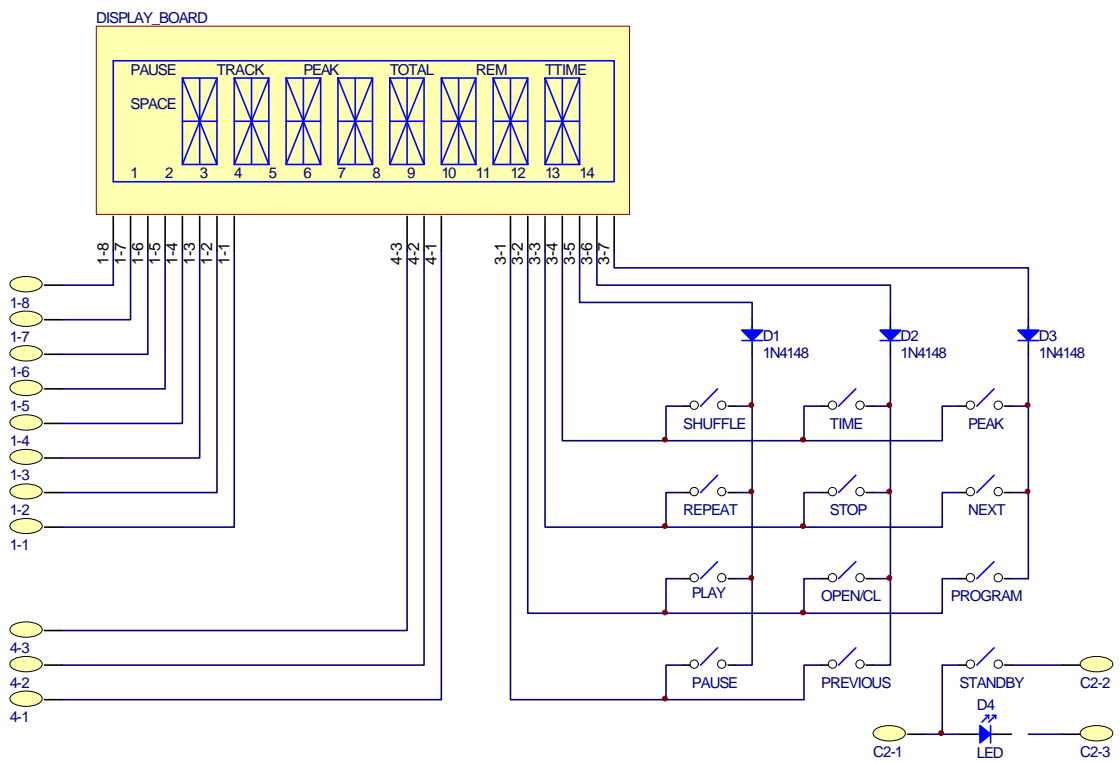
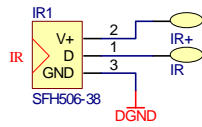
## Power Supply











Designator	Part Type	Description
C1	100n	MKT capacitor
C1	100n	MKT capacitor
C10	100n	MKT capacitor
C10	100n	MKT capacitor
C11	100n	MKT capacitor
C11	2n2	MKT capacitor
C12	100n	MKT capacitor
C12	6u8/35V	Electrolytic capacitor
C13	4700u/25V	Electrolytic capacitor
C13	68u/6V3	Electrolytic capacitor
C14	100n	MKT capacitor
C14	100n	MKT capacitor
C15	100n	MKT capacitor
C15	100n	MKT capacitor
C16	10u/16V	Electrolytic capacitor
C16	10u/16V	Electrolytic capacitor
C17	100n	MKT capacitor
C17	470u/25V	Electrolytic capacitor
C18	100n	MKT capacitor
C18	100n	MKT capacitor
C19	100n	MKT capacitor
C19	10u/16V	Electrolytic capacitor
C2	100n	MKT capacitor
C2	10u/16V	Electrolytic capacitor
C20	100n	MKT capacitor
C20	470u/25V	Electrolytic capacitor
C21	1n	MKT capacitor
C21	4700u/25V	Electrolytic capacitor
C22	100n	MKT capacitor
C22	100n	MKT capacitor
C23	100n	MKT capacitor
C23	470u/25V	Electrolytic capacitor
C24	100n	MKT capacitor
C24	10u/16V	Electrolytic capacitor
C25	100n	MKT capacitor
C25	10u/16V	Electrolytic capacitor
C26	100n	MKT capacitor
C26	1u/16V	Electrolytic capacitor
C27	100n	MKT capacitor
C27	220u/25V	Electrolytic capacitor
C28	100n	MKT capacitor
C28	100n	MKT capacitor
C29	100n	MKT capacitor
C29	4700u/25V	Electrolytic capacitor
C3	100n	MKT capacitor
C3	470u/25V	Electrolytic capacitor
C30	100n	MKT capacitor
C30	10u/16V	Electrolytic capacitor

Designator	Part Type	Description
C31	100n	MKT capacitor
C31	470u/25V	Electrolytic capacitor
C32	100n	MKT capacitor
C32	10u/16V	Electrolytic capacitor
C33	10u/16V	Electrolytic capacitor
C34	100n	MKT capacitor
C35	10u/16V	Electrolytic capacitor
C36	470u/25V	Electrolytic capacitor
C37	100n	MKT capacitor
C38	10u/16V	Electrolytic capacitor
C39	470u/25V	Electrolytic capacitor
C4	100n	MKT capacitor
C4	100n	MKT capacitor
C41	1n	MKT capacitor
C42	470u/25V	Electrolytic capacitor
C43	100p_pol	Styroflex capacitor
C44	100p_pol	Styroflex capacitor
C45	100p_pol	Styroflex capacitor
C46	100p_pol	Styroflex capacitor
C48	1n	MKT capacitor
C5	10u/16V	Electrolytic capacitor
C5	4700u/25V	Electrolytic capacitor
C51	470p_pol	Styroflex capacitor
C52	470p_pol	Styroflex capacitor
C53	100n	MKT capacitor
C54	100n	MKT capacitor
C55	100n	MKT capacitor
C56	100n	MKT capacitor
C57	10u/16V	Electrolytic capacitor
C58	10u/16V	Electrolytic capacitor
C59	10u/16V	Electrolytic capacitor
C6	100n	MKT capacitor
C6	10n	MKT capacitor
C60	10u/16V	Electrolytic capacitor
C61	470u/25V	Electrolytic capacitor
C62	470u/25V	Electrolytic capacitor
C63	470u/25V	Electrolytic capacitor
C64	470u/25V	Electrolytic capacitor
C65	1n	MKT capacitor
C66	100n	MKT capacitor
C67	1u/50V	MKT capacitor
C68	100n	MKT capacitor
C7	100n	MKT capacitor
C7	100n	MKT capacitor
C70	100p_pol	Styroflex capacitor
C71	100n	MKT capacitor
C72	1u/50V	MKT capacitor
C73	100n	MKT capacitor
C75	100p_pol	Styroflex capacitor
C76	100n	MKT capacitor

Designator	Part Type	Description
C77	470u/25V	Electrolytic capacitor
C78	470u/25V	Electrolytic capacitor
C79	100n	MKT capacitor
C8	100n	MKT capacitor
C8	10u/16V	Electrolytic capacitor
C80	100n	MKT capacitor
C81	100n	MKT capacitor
C82	100n	MKT capacitor
C83	33p	Styroflex capacitor
C84	33p	Styroflex capacitor
C9	100n	MKT capacitor
C9	100n	MKT capacitor
CN1	CN4	CINCH-2P
D1	1N4148	Diode
D1	1N4148	Diode
D1	BYD17	Diode
D10	BYD17	Diode
D10	BYD77	Diode
D11	BYD17	Diode
D11	LED	LED red
D12	BYD17	Diode
D12	LED	LED red
D13	BYD17	Diode
D13	BYD17	Diode
D14	1N4148	Diode
D14	BYD17	Diode
D15	BYD17	Diode
D16	BYD17	Diode
D17	AMP_PHDIOD	optical output
D18	BYD17	Diode
D2	1N4148	Diode
D2	BYD17	Diode
D2	BYD17	Diode
D25	LED	LED red
D26	LED	LED red
D27	LED	LED red
D28	LED	LED red
D29	LED	LED red
D3	1N4148	Diode
D3	6V2	Zener diode
D3	BYD17	Diode
D4	1N4148	Diode
D4	BYD17	Diode
D4	LED	LED red
D5	6V2	Zener diode
D5	BYD17	Diode
D6	1N4148	Diode
D6	BYD17	Diode

Designator	Part Type	Description
D7	1N4148	Diode
D7	BYD17	Diode
D8	1N4148	Diode
D8	BYD17	Diode
D9	1N4148	Diode
D9	BYD17	Diode
F1	1AT	Fuse
F2	1AT	Fuse
IC1	7404	Digital IC
IC2	7400	Digital IC
IC3	4013	Digital IC
IC4	TDA1315	DIGITAL AUDIO RECEIVER
IC5	TDA1305T	AUDIO DAC
IC6	TDA1305T	AUDIO DAC
IR1	SFH506-38	IR-receiver
Q1	BCV47	Transistor
Q11	BC817	Transistor
Q12	2SA1668	Transistor
Q13	2SC4382	Transistor
Q14	BCV47	Transistor
Q15	BCV47	Transistor
Q16	BCV47	Transistor
Q17	BCV47	Transistor
Q2	BC807	Transistor
Q3	BC807	Transistor
Q4	BC817	Transistor
Q4	BC817	Transistor
Q5	BC817	Transistor
Q6	2SA1668	Transistor
Q7	2SC4382	Transistor
Q8	BC807	Transistor
Q9	BC807	Transistor
R1	1R	Resistor
R1	4k7	Resistor
R10	1k	Resistor
R11	470R	Resistor
R12	3R9	Resistor
R14	3R9	Resistor
R15	4k7	Resistor
R16	3R9	Resistor
R17	3R9	Resistor
R18	4K7	Resistor
R19	1K	Resistor
R2	1R	Resistor
R2	4k7	Resistor
R20	47k	Resistor

Designator	Part Type	Description
R21	3R9	Resistor
R22	100K	Resistor
R23	1K	Resistor
R24	47K	Resistor
R25	4K7	Resistor
R26	1K	Resistor
R27	47K	Resistor
R28	1K	Resistor
R29	4K7	Resistor
R3	1R	Resistor
R3	4k7	Resistor
R30	1K	Resistor
R31	3R9	Resistor
R32	3R9	Resistor
R33	3R9	Resistor
R35	120R	Resistor
R36	3k3	Resistor
R37	3k3	Resistor
R38	120R	Resistor
R4	1R	Resistor
R4	4k7	Resistor
R41	3k3	Resistor
R48	47k	Resistor
R5	1R	Resistor
R5	3R9	Resistor
R50	390R	Resistor
R51	3R9	Resistor
R52	3R9	Resistor
R53	4k7	Resistor
R54	560R	Resistor
R55	560R	Resistor
R56	560R	Resistor
R57	560R	Resistor
R58	10R	Resistor
R59	10R	Resistor
R6	1R	Resistor
R6	49R9	Resistor
R60	3R9	Resistor
R60	3R9	Resistor
R61	3R9	Resistor
R61	3R9	Resistor
R63	100k	Resistor
R64	100k	Resistor
R65	100k	Resistor
R66	10k	Resistor
R67	OPT	Resistor
R68	10k	Resistor
R69	120R	Resistor
R7	1R	Resistor
R7	49R9	Resistor



Designator	Part Type	Description
R71	4k7	Resistor
R72	560R	Resistor
R73	560R	Resistor
R74	560R	Resistor
R75	560R	Resistor
R76	10R	Resistor
R77	10R	Resistor
R79	100k	Resistor
R8	1R	Resistor
R8	75R	Resistor
R80	100k	Resistor
R81	100k	Resistor
R82	10k	Resistor
R83	OPT	Resistor
R84	10k	Resistor
R85	120R	Resistor
R86	3k3	Resistor
R87	1k	Resistor
R88	4k7	Resistor
R89	1k	Resistor
R9	1k	Resistor
R90	4k7	Resistor
R91	100k	Resistor
R92	4k7	Resistor
R93	47k	Resistor
R94	4k7	Resistor
R95	390R	Resistor
R96	0R	Resistor
R97	0R	Resistor
R98	0R	Resistor
REL1	6V/150mW	Relay
REL1	NEC62R	Relay
SW1.1	115_230	Switch
SW1.2	115_230	Switch
TR1	AMP_PHTRAN	optical output
U1	LM7805	Voltage regulator
U1	TL071P	DSA converter
U2	LM7805	Voltage regulator
U2	AD711N	DSA converter
U3	7050-12	IC
U4	7050-12	IC
U4	AD711N	DSA converter
U5	TL071P	DSA converter
	DISPLAY_BOARD	DISPLAY MYTH 9

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Version: 1999-04-21 23:37