ORACLE AUDIO

The Fine Art of Playing Music



Oracle Audio Technologies Delphi MK V

Owner's Manual

FOREWORD

This is your Delphi MKV Owner's Manual. The following pages will describe as succinctly as possible the assembly of your new Delphi. Although some operations are self explanatory, we strongly suggest you read this booklet to better understand the importance of the different key adjustments.

Your Delphi is a precision instrument and its performance will be affected by the different adjustments. It is important to set up your Delphi with the utmost care so it can effectively convert record groove modulations into outstanding musical performance and enjoyment!

Total accuracy of your source system can only be achieved through minute details of turntable suspension calibration, tone arm installation and cartridge alignment.

A turntable is an art of geometry. Please take your time setting up your turntable.

FOR YOUR RECORDS

Oracle Delphi MK V Serial Number:	
Power Supply Serial Number:	
Dealers Name:	
Dealers Address:	
Dealer Phone:	
Purchase Date:	

We suggest you keep your sales slip together with this owner's guide.





TABLE OF CONTENTS

Pack and unpack your Delphi	4
Assemble the sub chassis	5
Adjust the plinth assembly	6
Install the tone arm and phono cartridge	7
Align the phono cartridge	8
Prepare the spring modules	9
Calibrate the suspension	10
Attach the phono lead	11
Install the drive belt	12
To remove the platter	13
Connect the power supply	13
Adjust the 33 / 45 speed	14
Attach the ground lead	14
Install and calibrate the hinges	15
Install the record clamp	15
Level the Delphi MK V	16
Troubleshooting	17
Maintenance	18
Specifications	19

PACK AND UNPACK YOUR DELPHI

Your ORACLE's packaging has been designed to protect it from the abusive handling normally encountered during shipping. Such packing materials are expensive and we recommend you save it for future shipping. When shipping the turntable, position each item in its allocated section. It is mandatory to use the original packaging for any return to the factory.

All the accessories are positioned strategically in the packaging to prevent them from coming loose and

possibly damaging the turntable during shipping.



- Remove the inner box by lifting it straight up and out. Open the flaps on both ends and slide out the Styrofoam packaging.
- Lift the Styrofoam cover straight up so as to protect the corner reinforcement.

The following items are located in the upper section of packaging:

- Dust cover (optional item ordered separately)
 - Calibrator disc
- Main bearing lubricating oil
- Oracle Power supply
- Accessories bag
 - o Drive belt
 - Lint free cloth
 - Suspension adjustment gauge
 - Tools pouch (screw driver, allen keys, 9/64"-3/32"-5/64")

The following items are located in the bottom section of packaging:

- Plinth assembly
- Platter
- Record clamp
- Brilliance cleaner
- Hinges (supplied with the dust cover option)
- · Strain relief clip
- Main bearing assembly
- One extra suspension spring
- Three suspension caps

ASSEMBLE THE SUB CHASSIS



Note: Lift the acrylic base straight up so as not to damage the platter's spindle protruding through.



- Locate the bearing assembly in the lower section of the packaging. Remove the 3 mounting screws.
- Locate the tool kit in the lower section and select the appropriate 9/64 th allen key.
- Lift the sub chassis straight up and mount the bearing assembly from underneath (ground lug side). The bearing assembly can only be mounted in one position

Note: The main bearing mounting flange is marked with a red dot. When installed this red dot must be on the axis of the motor pulley and the platter spindle. Any other positioning will impair the operation of your Delphi.

ADJUST THE PLYNTH ASSEMBLY



- Remove the styrofoam support blocks from around the suspension posts.
- Remove the suspension modules (i.e. the suspension housing, the spring and all related parts) remember that each module has or could have a different color coded spring. The modules have to go back on the same stem they came from.
- Remove the protective film from around the acrylic base.
- Level the plinth by turning the adjustable feet below.

Note: If you do not have a small carpenter's level to do this job, use the styrofoam blocks as they were originally installed around the three suspension posts. Seat the sub chassis evenly on the 3 blocks and use the spirit level on the sub chassis to level the plinth. The suspension modules are not required for this operation.

INSTALL THE TONE ARM AND PHONO CARTRIDGE

Precaution – When performing anything near the tonearm and cartridge, please do not wear loose clothing, ties, sweaters or anything than can catch or damage the cartridge or stylus.

Install the tone arm following the manufacturer's recommendations.

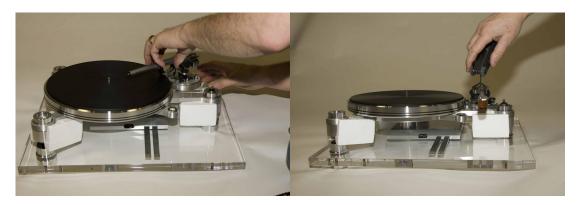
Note: The tonearm installation and calibration will be easier and safer with the sub chassis resting

on the foam shipping blocks as described earlier.

Note: The drive belt should not be used for this operation.

Note: Do not pour the oil in the bearing well for this operation.

Note: Handle the platter installation carefully to prevent any damages to the bearing assembly.



- Install the platter without the drive belt.
- Place the tone arm mounting board loosely in the sub chassis mounting ring and determine the correct way to mount the arm to the arm board.
- Mount the tone arm to the pre-cut tone arm board.
- Properly secure the tone arm mounting hardware.

Important! If you are planning to cut your own mounting board, remember that the cutting of the arm board can sometimes be troublesome as well as being a potential hazard. **The use of an adequate tooling is important to both accuracy and safety.**

- Use stainless steel or aluminium screws to mount the cartridge for maximum rigidity.
- In preparation for the final alignment, tighten the screws so the cartridge can be moved in the head shell.

PRECISELY ALIGN THE PHONE CARTRIDGE

Note: The adequate use of the Oracle calibrator disc will insure an accurate cartridge alignment.

Note: Important! Do not use tape to keep the platter from turning, doing so would damage the

paint finish of the sub chassis or the platter.

Note: Important! Any movement of the platter with the stylus cued down could result in

irrevocable damage to the stylus or the cantilever.



- Place the calibrator disc on the platter, over the mat.
- Prevent the platter from turning for this operation.
- Aim the alignment line (Located over the "O" of Oracle) with the pivot center of the tone arm.
- Adjust the stylus pressure to approximately 1 gram.
- Move the tone arm over the alignment grid and cue it down.
- Check for the horizontality of the arm tube with the surface of the calibrator disc or use the tone arm manufacturer's supplied tool, adjust the height accordingly.
- Bring the tone arm over the center of the grid again and lower it. The stylus tip must fit in the pin hole in the center of the grid. If not, position the cartridge so it does.
- Precisely align the body of the cartridge with the lines of the grid. Another way would be to visualize the cantilever as an extension of the center line of the grid.
- Secure the cartridge screws and repeat the previous operation.
- Check the azimuth (lateral view of the cantilever) by lowering the stylus over the black portion on the calibrator disc. The mirror reflection will help determine if the cartridge is off its vertical axis.
- Check the stylus pressure and adjust it to the cartridge manufacturer's specifications.
- Install the stylus guard to complete the assembly of your Delphi. Do not install the phono lead at this time.

PREPARE THE SPRING MODULES

Note: The spring tension of the suspension system can be adjusted two ways. First by using a

different color coded spring. They are coded as follow from the weakest to the strongest, white (rarely needed... not supplied), yellow, red, green, blue and black (rarely needed... not supplied). The second is by changing the position of the spring in its holder. The color

coding is visible from the inside at the wider end of the spring.

The reference to clockwise or counter-clockwise is determined by viewing the spring from Note:

above, unless otherwise mentioned.

GRAMMER - By hand the spring can only be rotated counter clockwise in its holder. To Note:

move it clockwise, using needle nose pliers, it can be held near the tip at the wider end. It is then possible to move it clockwise. If this cannot be done, rotate the spring counter clockwise until it comes out and reinsert it from under the holder leaving more of the spring

Note: Before installing the spring back into the suspension housing, hold it with one hand and pull

on it at the wider end, this stretching will insure a positive seating in the threads of the holder.



Step one - Pre-loading the spring.

Adjust the spring so three coils are showing below the holder.

Step two - Preparing a spring module.

- Position the upper spring damper over the suspension stem.
- Install the Sorbothane damper over the spring holder and seat it well around the lip.
- Insert the spring assembly into the suspension housing.
- Install the suspension housing over the spring assembly.

Note: The factory standard settings:

Yellow - front left module Green - right module Red - rear left module

The blue spring is supplied as extra

The standard spring combination will accommodate most tonearms. Note:

CALIBRATE THE SUSPENSION

Note: Before beginning this step the record clamp and an old record must be in place over the

platter. This will give a more accurate operational mass of the sub chassis.

Do not install the drive belt or the phono lead so as to prevent any bias in the interpretation Note:

of the calibration.

Always start the calibration with the module near the tone arm then move to the rear left and Note:

finally to the front module.

Place the sub chassis over the suspension modules.

Install the platter without the drive belt.

Locate the suspension gauge in the documentation envelope.

Do not consider "A", nor 1 & 2, they were used on the earlier models.

Place the gauge on the acrylic base with the "B" side against the lock feet.

For the first round bring all three suspension housings at 3 mm (1/8" inch) above the "B" step on all three modules.

For the second round, reduce the increments to 1/8 of a turn or less until the suspension housing touches the step on the gauge very lightly.

With the spring adjusted as per step one, the bottom of the suspension housing should be Note: well above the "B" step of the gauge.

If it falls below... this is an indication that the spring used is too weak for this tonearm application.

If a small adjustment is necessary to move the suspension housing above the 'B' line, remove the sub chassis and move the weak spring counter clockwise in its holder (looking at it from the wide side). Recalibrate the suspension.

If the adjustment needed is important, identify the color code and use the next stiffer spring. With a new

spring start the calibration procedure over.







Note: If the distance between the bottom of the suspension housing and the gauge is small, rotate

> the spring counter-clockwise by increments of 1/4 of a turn, if the distance is large start by making full turns of the spring. Always apply a downward pressure on the record clamp to stretch the spring prior to taking a new reading.

Note:

In the event that the suspension housing goes below the "B" step, start the procedure step one again.

Note: Once the proper adjustment is achieved, it is important as a final check to verify the relative

position of the bottom of the spring with its holder. This can be done by simply lifting the suspension housing just enough so you can see the spring. If you can see the spring anywhere from almost flush to up to 3 coils out of the spring holder, the spring is in a safe range. If the spring can not be seen showing below the holder a careful inspection should be performed on this spring to make sure it is still at less than ½ turn inside the holder.

Note:

This is an indication that the spring is approaching its limits (too soft for the application). The use of a softer spring should be considered. Failing to do so could eventually cause the spring to slip out of its holder thus causing potential damage to your record and your phono cartridge!

ATTACH THE PHONO LEAD (DOES NOT APPLY TO THE DELPHI WITH A GRANITE BASE EDITION)



- The phono lead can now be connected to the base of your tone arm.
- Secure the lead to the strain relief clip form above or below the plinth.

Note: The lead must create a loop from the base of the tone arm to the strain relief clip. This is

done to prevent any interference of the lead with the suspension system.

Note: In some applications, the phono lead might be too stiff and it is then recommended to split

the moulded wire from the plug to the strain relief.

Note: If the loop is too long, the lead could come in contact with the table below the turntable. If it

is too short, it will keep the suspension system from moving freely. In both cases, this would

be detrimental to the sound.

INSTALL THE DRIVE BELT

Note: To reduce contamination problems, wash your hands prior to handling the drive belt.



- Remove the platter.
- Pour some of the oil vial (3 cc) in the bearing and verify the level using the depth gage supplied with your turntable.
- Locate the drive belt in the upper section of the packaging.
- With the platter upside down, place the belt around the hub.
- Bring the platter over the bearing and <u>lower it straight down</u> with one finger holding the belt stretched.
- Guide the drive belt around the motor pulley when the spindle is 2/3 inside the main bearing.
- Rotate the platter by hand a few turns to allow the belt to position itself around the hub and the motor pulley.

Note: The special lubricating oil supplied with your Delphi is designed to protect and preserve the

mating parts for many years. Unless contaminated with dirt or alcohol, this lubrication will

last for many years

Note: In the event that the drive belt becomes contaminated, clean it with denatured alcohol.

Clean the motor pulley and the drive hub at the same time.

TO REMOVE THE PLATTER WITH THE DRIVE BELT INSTALLED

Note: The following is not an operation related to the assembly of your Delphi but a procedure to prevent overstretching the drive belt.

• Place one hand at the rear of the platter, over the motor, one hand at the front, lift the platter about 2.5 cm (one inch) and with one finger pull the belt off the motor pulley, then lift the platter straight up. Lifting the platter without looking after the drive belt could possibly damage it.

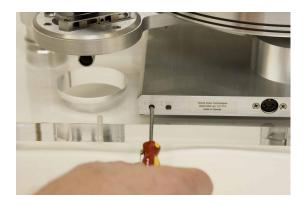
CONNECT THE POWER SUPPLY

- Plug the power supply output to the turntable input receptacle located to the rear of the turntable.
- Plug the input cord to an AC outlet.

Note: Keep the power supply away from signal carrying leads.

Note: Leave the Power Supply in the ON position all the time, unless you don't intend to use the turntable for a long length of time.

ADJUST THE 33 AND 45 SPEED



Note: The 33 speed must always be calibrated first.

Note: The individual speed potentiometers are accessible from the rear of the drive module.

When viewing the module from the rear, a clockwise rotation of the potentiometer will result

in an increase of the selected speed.

Note: The inner circles of strobe marks on the calibrator disc are to be used with a supply of 50

Hz. The circle near the center is for 33 RPM, the other one is for 45 RPM. The outer circles are to be used with a supply of 60 Hz. The outermost circle is for 45 RPM, the one next to it

is for 33 RPM.

Note: The use of incandescent or preferably, fluorescent lighting is required to accurately read

the calibrator disc.

Note: When the right speed is reached the appropriate set of strobe marks will be standing still

(with no movement forewords or backwards)

• Place the calibrator disc over the spindle, on the platter.

- Select the 33 speed and check for accuracy.
- Select the 45 speed and check for accuracy.
- If both speeds need to be corrected, select the 33 speed again and, using the small screw driver supplied with the tool kit, rotate the 33 speed potentiometer (to the left, when viewing the module from the rear) until the strobe marks on the calibrator disc come to a standstill position.
- Check the 45 speed again, if a small correction is still required, rotate the 45 speed potentiometer.

ATTACH THE GROUND LEAD

- Loosen the thumb nut from under the sub-chassis near the tonearm and insert one end of the lead
- Attach the other end of the lead to the ground post of your pre-amplifier.

INSTALL AND CALIBRATE THE HINGES

(Supplied when purchasing the optional dust cover)

- Locate the hinges in the lower section of the packaging and the appropriate allen key (3/32") from the tool kit.
- Mount the hinges to the plinth and do not tighten the screws completely. Make sure the dust cover slots line up correctly with each other before the final tightening.
- Install the dust cover by sliding it in the hinges slot.

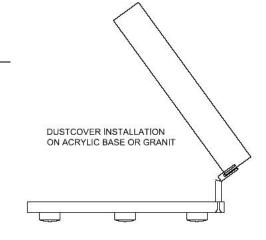
Note: If the dustcover can not be lifted totally open in its playing area, it is possible to change the

spring tension of the hinges. The tension has been pre-adjusted on both hinges at the factory to its

best performance.

INSTALL THE RECORD CLAMP





• Tighten the clamp so the record is pushed flat against the mat.

Note: Damages may occur to your albums when over tightening the record clamp.

LEVEL YOUR DELPHI



Your turntable is now ready to be moved to its final location.

• Level the acrylic base by turning the levelling feet. Use the sub chassis spirit level to complete this final adjustment since the relative level has already been established between the sub chassis and the acrylic base.

TROUBLESHOOTING - WHAT TO DO ...

... if the turntable does not start and the speed indicating light does not go on Check:

- AC connection to the wall outlet.
- Plug the power supply output into the input receptacle of the turntable.
- Power supply output if no output, replace the fuse inside.
- Use 0.25 amp / 250vac for 100 and 120 volts line input.
- Use 0.1 amp / 250vac for 200 and 220 volts line input.

... if the turntable does not start and the speed indication light goes on

Check:

- drive belt
- · motor connection plug for a broken wire
- · drive module for a broken wire
- · defective drive module

... if the platter is not parallel with the plinth

Check:

• suspension calibration using the suspension gauge

Note: If a relatively important change occurred in one particular suspension module, it could be

the sign of an improperly seated spring of sorbothane ring. Check the installation carefully

prior to calibrating again.

Read: Section How to ... calibrate the suspension

... if an even up or down motion cannot be obtained when gently pressing on the record clamp Check:

- level of the base
- for phono lead interference with the movement of the suspension. If uncertain, unplug the lead.

Read: Previous topic: ... if the platter is not parallel with the plinth.

... if 33 and 45 speed becomes erratic

Check:

- drive belt to make sure it rides in the center of the motor pulley
- motor pulley height (should be 71 mm (2.800 in) from the top of the pulley to the acrylic base)
- lubrication in main bearing
- drive belt for oil contamination
- · drive belt for excessive wear
- for damaged of defective main bearing
- · motor connection plug for a broken wire
- drive module for a broken wire
- defective motor
- · defective drive module

MAINTENANCE

- The blue cloth supplied can be used to clean all the metal, acrylic parts and the mat. Always
 use the cloth dampened with water to dust the acrylic parts. Do not use this cloth to pick up oil
 spills, keep it for the delicate work.
- Unless contaminated, there will be no need to dismantle the main bearing. If required it is simple to disassemble it from the sub chassis. Keep the bearing assembly vertical since it contains oil. If the oil is contaminated it must be disposed of ecologically. Remove the 3 socket head cap screws holding the bottom cover. Clean the thrust pad and the inside of the bearing well with denatured alcohol using a cotton swab. Allow a few minutes for the parts to dry. Reassemble, making sure to firmly secure the screws. Do not forget to add the content of one oil vial (about 3 cc) before installing the platter.
- As a precaution to preserve the furniture your Delphi sits on, it is advisable to use a folded paper towel under the main bearing for a few weeks in the case of a bearing spillage.
- The drive belt should be replaced yearly for optimal performance.
- Contact Oracle Audio Technologies for an Oracle Maintenance Kit. The kit includes all the replaceable parts, tools and lubricants to keep your Oracle Delphi turntable in top shape.

SPECIFICATIONS

Suspension: The Delphi subchassis / platter / tonearm assembly is suspended by a tripedal mounting, which custs out room vibrations. Each suspension tower assembly combines 12 different components, using 7 different mechanical filters, all working as a whole to efficiently control unwanted vibrations.

Bearing assembly: A new system using six precision surfaced nylon screws. With this system Oracle reaches the highest level of rotational accuracy.

Motor drive electronics and drive belt: Oracle selected a specially designed AC synchronous motor. The Delphi MK V features a dual current drive circuitry having a maximum start-up torque energy and minimum efficient operational energy, which guarantees lowest possible motor vibration. The molded belt plays an important role in maintaining maximum speed stability.

Record / Platter: The maximum rigidity of the 4kg (8.8 pound) platter is immune to vibration by distributing most of the mass around it's outer edge. The flywheel effect increases momentum.

Record coupling system: Oracle pioneered the now well established "record clamp system" to solve specific vinyl disc "warp" problems.

Hard acrylic mat: The Oracle acrylic mat made from specially formulated polymer shows better matching characteristics (impedance) with the vinyl disc.

Subchassis: Oracle demonstrates that superior engineering can also be aesthetic. The finely brushed skeletal subchassis will dissipate unwanted energy through efficient coupling and clamping methods. Maximum rigidity, minimal surface area and energy control are key design.

Warrany: Two years parts & labor

Power Requirements	100 / 120 / 220 / 230 VAC, 50 Hz / 60 Hz
Dimensions (WHD)	363 x 475 x 150 mm,14.5 x 19 x 6 inches
Weight with Acrylic Base	18 kg, 39.6 pounds
Weight with Granite Base	30 kg, 66 pounds
Regular Power Supply (WHD)	1.4 kg, 3 pounds, 130 x 70 x 175 mm, 5.2 x 2.8 x 7 inches
Turbo Power Supply (WHD)	

Oracle - SME Tonearm

The tonearm provides superbly detailed and transparent sound, making the music seem more alive and open. This tonearm offers differing pivot to stylus distances and was designed for the needs of a broader market requiring alternative arm length and interchangeable shell facility.

Distance from Pivot to Stylus	232.2 mm
Distance from Pivot to Turntable Center	213.4 mm
Cartridge Fixing Centers	12.7 mm
Effective Mass	9.5 g
Cartridge Balance Range	6-17 g
Vertical Tracking Force at Minimum Cartridge Weight	0 - 2.5 g
Capacitance	140 pF / channel
Resistance	0.15 ohms / conductor
Internal Wiring	15 pF / channel
Resistance	0.54 ohms / conductor
Output Plug and Socket – DIN 5-Pole	240°
Weight	717 g

We are confident your new Oracle product will give you many years of satisfaction

You are now ready for the real and only purpose of all this... to sit down and relax, and to enjoy the Fine Art of Playing Music

The folks at Oracle Audio Technologies Inc

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