OPERATIONS MANUAL

Bedienungsanleltung

Manual de funcionamiento

Manual de fonctionnement

Manual del utente

XL-500 II

DIRECT-DRIVE MANUAL TURNTABLE

Handdrehscheibe mit Direktantrieb

Giradiscos manual de accionamiento directo

Table tournante manuelle à entraînement direct
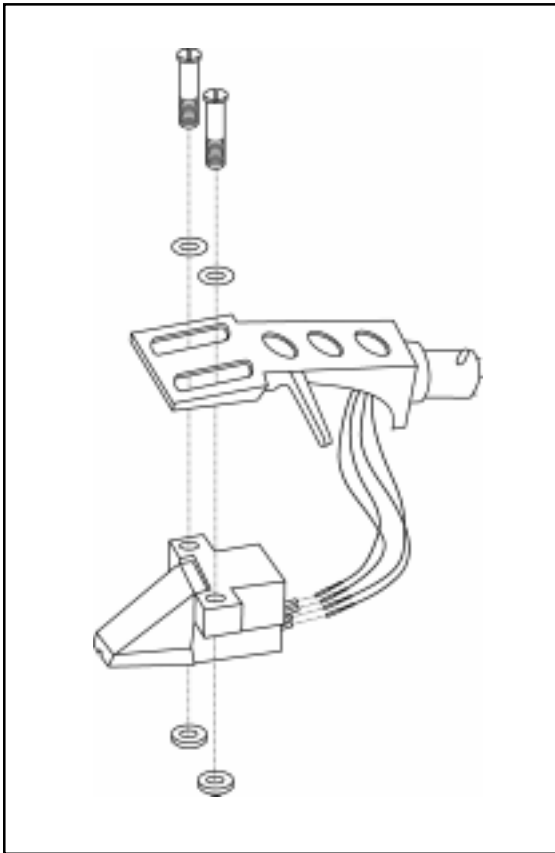
Giradischi manuale a comando diretto

Figure 1
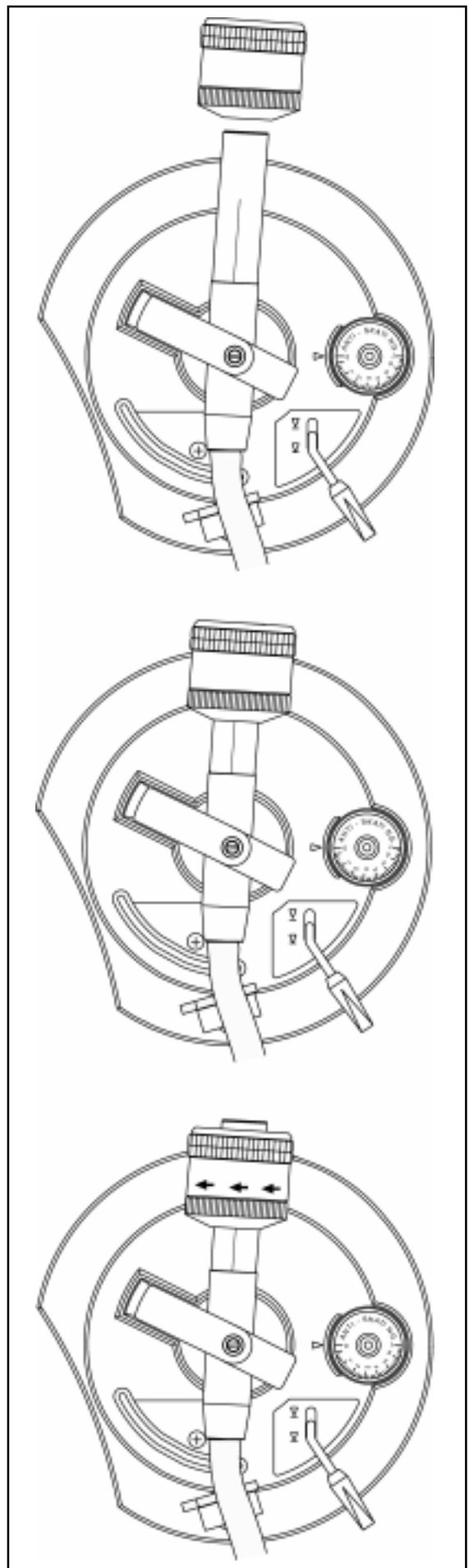
Figure 2

Figure 3

Introduction

Congratulations on purchasing a Gemini XL-500 II turntable. This state of the art turntable includes the latest features. Prior to use, we suggest that you carefully read all the instructions.

Features

- ±10% Pitch control
- Braking for quick stops
- Strobe illuminator
- Soft-touch start/stop switch

Precautions

1. Read all operating instructions before using this equipment.

2. To reduce the risk of electrical shock, do not open the unit. There are NO USER REPLACEABLE PARTS INSIDE. Please contact the Gemini Service Department or your authorized dealer to speak to a qualified service technician.

> In the U.S.A., if you have any problems with this unit, call 1-732-969-9000 for customer service. Do not return equipment to your dealer.

3. Tone Arm bearings are factory set and sealed. Any attempt at adjustment will void the warranty.

4. Be sure that all AC power is OFF while making connections.

5. Cables should be low capacitance, shielded and of proper length. Make sure that all plugs and jacks are tight and properly connected.

6. Always begin with the audio level faders/volume controls set at minimum and the speaker volume control(s) set to OFF. Wait 8 to 10 seconds prior to turning up the speaker volume to prevent the transient "POP" that could result in speaker/crossover damage.

7. DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

8. DO NOT USE ANY SPRAY CLEANER OR LUBRICANT ON ANY CONTROLS OR SWITCHES.

Parts Checklist

Turntable unit..1
Dust cover hinge...2
Turntable platter...1
45 RPM adapter...1
Rubber mat...1
Counter balance...1
Dust cover..1
Headshell..1

Assembly and Set-Up

SEE FIG. 1 (PAGE 1) FOR PART NUMBERS AND LOCATIONS.

TURNTABLE INSTALLATION:

1. Set the **TURNTABLE BASE (1)** on a flat, level surface free of vibration. Try to place the unit as far away from the speakers as possible. Keep the unit away from direct exposure to the sun, heat, moisture or dirt. Keep the unit well ventilated. Use the turntable feet to horizontally stabilize the unit.

2. Make sure that the **VOLTAGE SELECTOR (3)** switch (located on the **TURNTABLE BASE**) is set to the correct voltage. WARNING: If you try to operate the turntable with the incorrect voltage setting, it can damage your turntable.

3. After checking to ensure that all packing materials have been removed, gently place the **PLATTER (2)** on the center spindle of the **TURNTABLE BASE (1)**.

4. Put the **RUBBER MAT (4)** on the **PLATTER (2)**.

CARTRIDGE INSTALLATION: (SEE FIG. 2)

Because all cartridges have their own designs, please refer to your particular cartridge's instructions to insure proper installation.

1. Connect the lead wires to the cartridge terminals. For your convenience, the terminals of most cartridges are color coded. Connect each lead wire to the terminal of the same color.

    White (L+)...............................Left Channel +
    Blue (L-)..................................Left Channel -
    Red (R+)................................Right Channel +
    Green (R-)............................Right Channel -

2. Mount the cartridge in the **HEADSHELL (5)** and tighten it with the screws included with the cartridge.

> **ATTENTION STANTON 680 CARTRIDGE USERS**
>
> When using a Stanton 680 or similar cartridge, where the body is grounded to a cartridge terminal, remove the grounding strap from the cartridge body to the cartridge ground terminal. Failure to do this may result in excessive hum.

HEADSHELL INSTALLATION:

Insert the **HEADSHELL (5)** into the front of the tubular **TONE ARM (6)**. While holding the **HEADSHELL (5)** firmly in a horizontal position, turn the **LOCKING NUT (7)** counter clockwise until the **HEADSHELL (5)** is locked in place.

COUNTERWEIGHT INSTALLATION: (SEE FIG. 3)

1. Slide the **COUNTERWEIGHT (8)** onto the rear of the **TONE ARM (6)** with the numbered stylus gauge facing forward.

2. Twist the **COUNTERWEIGHT (8)** lightly counter clockwise, to screw it onto the rear of the **TONE ARM (6)**.

ADJUSTING HORIZONTAL ZERO (0) BALANCE AND STYLUS PRESSURE:

1. Without touching the stylus tip, remove the stylus protector (if your cartridge has a detachable one).

2. Release the **ARM CLAMP (9)** and lift the **TONE ARM (6)** off the **ARM REST (10)**.

3. Counter clockwise advancement of the **COUNTERWEIGHT (8)** will cause the cartridge side of the **TONE ARM (6)** to be lowered. Clockwise will cause the opposite. Turn the **COUNTERWEIGHT** clockwise or counter clockwise as needed until the **TONE ARM** is balanced horizontally. You can easily tell this by watching for the point where the **TONE ARM** "floats" freely.

4. Place **TONE ARM (6)** on **ARM REST (10)** and lock it in place with the **ARM CLAMP (9)**.

5. With the **TONE ARM (6)** locked on the **ARM REST (10)**, hold the **COUNTERWEIGHT (8)** steady with one hand while rotating the **STYLUS PRESSURE RING (11)** until the numeral "0" on the ring aligns with the center line on the **TONE ARM (6)** rear shaft. The horizontal zero (0) balance should be completed.

6. Refloat the **TONE ARM** to ensure horizontal zero (0) balance. If zero balance has not been maintained, repeat counterweight steps 3 - 5.

7. After adjusting the horizontal zero (0) balance, turn the balanced **COUNTERWEIGHT (8)** counter clockwise until the cartridge manufacturer's recommend stylus pressure appears on the **STYLUS PRESSURE RING (11)** where it meets the center line of the **TONE ARM (6)** rear shaft.

ADJUSTING THE ANTI-SKATING CONTROL:

Set the **ANTI-SKATING CONTROL (12)** to the same value as the stylus pressure.

INSTALLING THE DUSTCOVER:

1. Mount the hinges onto the dustcover.
2. Hold the dustcover in position, directly above the turntable, and slide the hinge bases into the holders mounted on the rear panel.
3. Always raise the dustcover before removal.
4. Avoid opening and closing the dustcover during play. Undesirable vibration and stylus skipping can result.

CONNECTIONS:

1. Plug the AC power plug into an appropriate outlet.
2. See Table A for proper connection of the output RCA plugs and ground connector. Make sure that all the plugs are firmly plugged into the appropriate jacks (phono inputs). To reduce hum, make sure the ground lug is firmly connected to the ground screw.

TABLE A

OUTPUT CONNECTORS	MIXER OR RECEIVER
L (WHITE)	PHONO L CHANNEL
R (RED)	PHONO R CHANNEL
GND (Spade Lug)	GND Screw

Operating Instructions

BASIC OPERATION:

1. Place a record on the **RUBBER MAT (4)** which sits on the **PLATTER (2)**.
2. Select the desired speed by depressing the 33 or 45 **SPEED SELECTOR (15)** button.
3. Turn the **POWER (13)** switch to the **"ON"** position, at which point the strobe illuminator (built into the **POWER (13)** switch and the speed indicator (for the selected speed) will illuminate.
4. Remove the stylus protector (if applicable to your cartridge).
5. Release the **ARM CLAMP (9)** found on the **ARM REST (10)**.
6. Push the **START STOP (14)** button. The turntable **PLATTER (2)** will start to spin.
7. Push the **CUE LEVER (16)** to the **"UP"** position.
8. Position the tone arm over the desired position on the record and push the **CUE LEVER** to the **"DOWN"** position. The **TONE ARM (6)** will slowly lower onto the record at which time play will begin.
9. When play is over, raise the **TONE ARM (6)**, move it to the **ARM REST (10)**, and secure it with the **ARM CLAMP (9)**.
10. You now have the option of turning off the power by turning the **POWER (13)** switch to the **"OFF"** position, or stopping the **PLATTER (2)** by pushing the **START STOP (14)** button and engaging the electronic brake.

INTERRUPTING PLAY:

1. Pushing the **CUE LEVER (16)** to the **"UP"** position will cause the **TONE ARM (6)** to lift stopping play.
2. Pushing the **CUE LEVER (16)** to the **"DOWN"** position will cause the **TONE ARM (6)** to slowly lower onto the record at the point where play was interrupted.

PLAYING 45 RPM RECORDS:

1. When playing a 45 RPM record with a large center hole, first place the **45 ADAPTER (17)** on the center spindle.
2. Be sure that the 45 **SPEED SELECTOR (15)** button is pushed and the 45 speed indicator is illuminated.

TARGET LIGHT:

1. Push the **TARGET LIGHT SWITCH (18)** firmly and the **TARGET LIGHT (19)** will illuminate the stylus tip.
2. When not being used, the **TARGET LIGHT** should be turned off.

ADJUSTING THE PITCH CONTROL:

1. The XL-500 II is equipped with a **PITCH CONTROL (21)**. When the **PITCH CONTROL** is in the center position the speed will be 33 or 45 depending on which **SPEED SELECTOR (15)** is pushed.
2. When the **PITCH CONTROL** is positioned off center, the pitch can vary ±10% depending on the position of the **PITCH CONTROL**.
3. The **PLATTER (2)** is equipped with a **STROBE RPM INDICATOR STRIP (22)** and the **POWER (13)** switch contains built in **STROBE LIGHTS (23)**. When the **PLATTER (2)** is spinning, the **STROBE LIGHTS** illuminate the **STROBE RPM INDICATOR STRIP**. At 60 Hz the bottom row of dots will appear to be stationary when the speed of the platter is exactly 45 RPM and the second row from the bottom will appear to be stationary at 33 RPM. At 50 Hz, the second row from the top represents 45 RPM and the top row represents 33 RPM.

PITCH BEND:

1. Pushing the **PITCH BEND (20)** buttons will temporarily raise or lower the pitch without changing the slide setting. Releasing the buttons will return the pitch to the slide setting.

Specifications

TURNTABLE SECTION:

Type.....................................Direct Drive Manual Turntable
Drive Method..Direct Drive
Motor..Brushless DC Motor
Platter.....................................Aluminum Diecast 13" (332 mm) Dia.
Speed...33 1/3 or 45 RPM
Starting Torque...1.2 Kg/cm
Build-up Characteristics......................0.8 sec. standstill to 33 1/3 RPM
Braking System...Brake (Solenoid)
Wow and Flutter..0.02% WRMS*

* This rating refers to the turntable assembly and platter only and excludes effects of records, cartridges or tonearms.

Rumble...56 dB Unweighted

TONEARM SECTION:

Type...Universal S-Shaped Tubular Arm
Effective Length...9 1/16" (230.1 mm)
Overhang...19/32" (15.2 mm)
Effective Mass.....................................9 g (Without Cartridge)
Offset Angle...22°
Friction......................................Less Than 7 mg (Lateral, Vertical)
Tracking Error Angle.....Within 2°32' at the outer groove and within 0°32' at the inner groove of a 30 cm (12") record
Stylus Pressure Adjust Range...0 - 5 g
Applicable Cartridge Weight Range..6 - 10 g
Headshell Weight...5.6 g

GENERAL:

Power Supply..115V~60Hz/230V~50Hz
Power Consumption...15 Watts
Dimensions.......................17 3/4" x 6" x 14" (450 x 152 x 352 mm)
Weight...22.5 lbs. (10 Kg)

Specifications are subject to change without notice. The weight and dimensions shown are approximate.

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In the U.S.A., if you have any problems with this unit, call 1-732-969-9000 for customer service. Do not return equipment to your dealer.

Parts of the design of this product may be protected by worldwide patents.

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