

GH 228 Tonearm



SPECIFICATION

Mounting hole	15.87mm dia (5/8" dia)
Overall length	307.34mm (12.10")
Height	43mm - 90mm (1.7" - 3.5")
Pivot stem length	86.4mm (3.4")
Pivot to stylus length	228.6mm (9.0")
Pivot to centre of turntable	212.85mm (8.38")
Offset angle	23°
Rear overhang	60.9mm (2.4")
Headshell mounting	12.7mm (0.50")
Cartridge mass	3-12 gms

BOX CONTENTS

Top arm tube complete with headshell and top pivot assembly
Arm base with unilift assembled with captive arm lead
Ground lead
Main weight
Rider weight
Bias weight
Bias weight pulley assembly
3 Allen Keys
Cartridge mounting screws
Mounting template
Alignment protractor
Guarantee card



Fitting instructions

1 ARM BASE ASSEMBLY

Use Mounting Template to determine position of the threaded flange (22) on the arm mounting of the board of the turntable. Having placed the template over the turntable spindle mark the pivot centre with a large needle in an arc, making sure there is sufficient clearance all the way round.

Drill a 5/8" (16mm) diameter hole in the position marked. If BULLET PHONO PLUGS are fitted to the PHONO LEADS it will be necessary to drill a 3/4" (19mm) diameter hole.

The arm base assembly should be mounted on the armboard with the WASHER (25) and the NUT (24) which are slotted so they can easily be placed over the cable. The THREADED FLANGE (22) should be positioned so that the SET SCREW (29) in the flange is facing the front, thereby enabling the PIVOT PILLAR (21) to be adjusted for height with the 1/16" ALLEN KEY.

2 BIAS PULLEY WHEEL ASSEMBLY

Undo the SOCKET CAP SCREW (15) with the ALLEN KEY (2mm) and fit the PULLEY WHEEL ARM with the SPACER (14) and refit to the PIVOT PILLAR (21). See Fig 2.

3 FITTING THE CARTRIDGE TO THE HEADSHELL

Slacken the SET SCREW (5) in the HEADSHELL (1) with the 1/8" ALLEN KEY. The HEADSHELL may be removed from the ARM TUBE to make it easier to fit. Make sure the cartridge stylus is in position before fitting it to the HEADSHELL. Select screws of suitable length and fit the cartridge to the HEADSHELL. Please note the HEADSHELL can be supplied with plain fixing holes so that screws and nuts supplied by the cartridge manufacturer may be used.

4 FITTING THE HEADSHELL TO THE ARM TUBE

Attach the HEADSHELL to the ARM TUBE and tighten the SET SCREW (5) near the end of the tube. Carefully push the wires through the HEADSHELL and attach the CARTRIDGE TAGS to the cartridge pins as follows:

RED = RIGHT LIVE

GREEN = RIGHT GROUND

WHITE/YELLOW = LEFT LIVE

BLUE/BLACK = LEFT GROUND

Do not solder direct to the cartridge pins!

5 FITTING WEIGHTS TO THE WEIGHT SUPPORT

The MAIN WEIGHT (11) and the RIDER WEIGHT (7) can now be fitted to the WEIGHT SUPPORT (8). Position the MAIN WEIGHT (11) about half way along to WEIGHT SUPPORT (8) AS SHOWN IN FIG.1 with the RIDER WEIGHT to the end of the WEIGHT SUPPORT (8).

6 TOP ARM ASSEMBLY TO BASE ASSEMBLY

The whole top arm assembly can now be positioned onto the base assembly locating the BEARING HOUSING (3) bearing onto the PIVOT PIN (20) in PIVOT PILLAR (21). Loosen SET SCREW (17) with the smallest ALLEN KEY (0.050") and then adjust the ARM TUBE (2) in the BEARING HOUSING (3) SO THAT THE RED PLUG (31) wires exit the ARM TUBE facing downwards. Make sure that when the RED PLUG is attached to the red socket in the LIFT PLATFORM (12) the lead wires face the turntable spindle.

7 HEADSHELL ADJUSTMENT

Place the ALIGNMENT PROTRACTOR over the turntable spindle and adjust the HEADSHELL (1) by slackening the SET SCREW (5) of the headshell along the arm tube until the cartridge is parallel with the lines when the stylus rests at points A and B. Ensure that the top face of the HEADSHELL is set level with the top face of the BEARING HOUSING (3).

8 ARM HEIGHT ADJUSTMENT

With the 1/16" ALLEN KEY slacken the set screw (29) in the ARM BASE FLANGE (22) and raise or lower the PIVOT SUPPORT (21) so that the ARM TUBE is parallel with the record on the turntable platter.

The Cartridge manufacturer's recommended Vertical Tracking Angle (VTA) can then be set by slackening the SET SCREW (29) and adjusting the height accordingly.

9 ADJUSTMENT OF THE UNI-LIFT

Adjust the ARM REST (9) with the 1/16" ALLEN KEY so there is clearance when the stylus is resting on the record.

10 BIAS WEIGHT ADJUSTMENT

The BIAS THREAD LOOP should be attached to the BIAS ROD (19) between the plastic spacers. The BIAS PULLEY WHEEL ARM (16) should be set so that the thread is parallel with the ARM TUBE when the stylus is resting on the record. See Fig. 3.

It is recommended that the position of the BIAS THREAD LOOP between the spacers on the BIAS ROD (19) should initially be halfway along the rod. The final position of the BIAS THREAD LOOP should be determined by using the Hi-Fi News Test Record. Set the MAIN WEIGHT (11) and the RIDER WEIGHT (7) to the cartridge manufacturer's recommended tracking force. It is essential to use a Stylus Balance Gauge to achieve accurate pressure. Azimuth (i.e. the angle of the HEADSHELL) is adjusted and can be set by rotating the MAIN WEIGHT (11).





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