

JVC | Instruction Book

AUTO-RETURN DIRECT-DRIVE TURNTABLE **L-A31**



WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

For Customer Use;

Enter below the Model No. and Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

PREPARATIONS

Do not connect the power cord to the AC outlet until connections are completed.

Unpacking and Setting up

1. Remove the vinyl ribbon ① fixing the tonearm.
2. Remove the screw ② to dismount the spacer ③ and the counter-weight ④
3. Remove the screws ⑤ ⑥ and spacers ⑦ ⑧
4. Slide the counterweight ④ onto the weight axis by turning the counterweight to "A" direction, as in Fig. 2.
5. Place the platter mat on the platter.
6. Cartridge mounting
Remove the headshell from the tonearm by loosening the screw. Connect the four lead wires on the cartridge you have selected. Cartridge lead wires are usually colour-coded as described on page 5. Mount the cartridge on the headshell with the two screws and nuts loosely for easier overhang adjustment. (Refer to "Cartridge mounting" on page 5.)
7. Headshell mounting
Insert the cartridge-equipped headshell into the receptacle of the tonearm and fasten the screw.

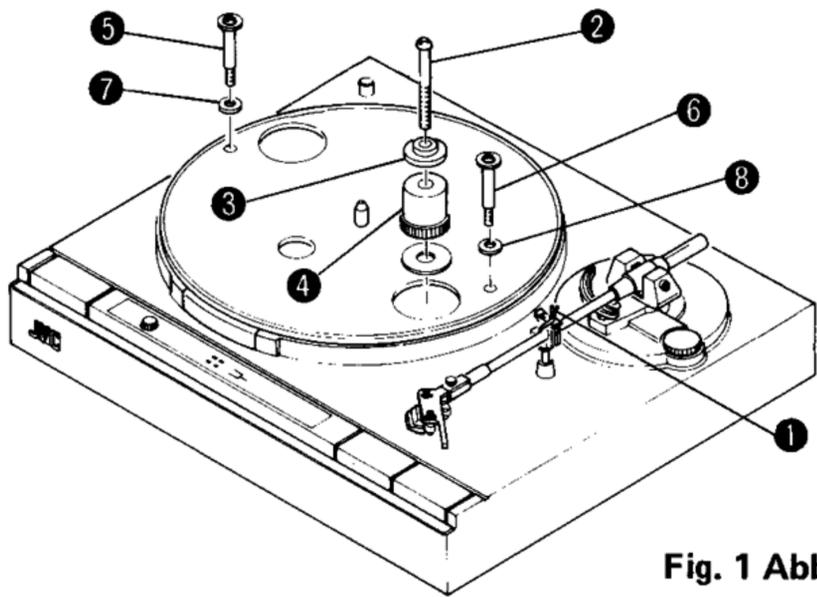


Fig. 1 Abb. 1

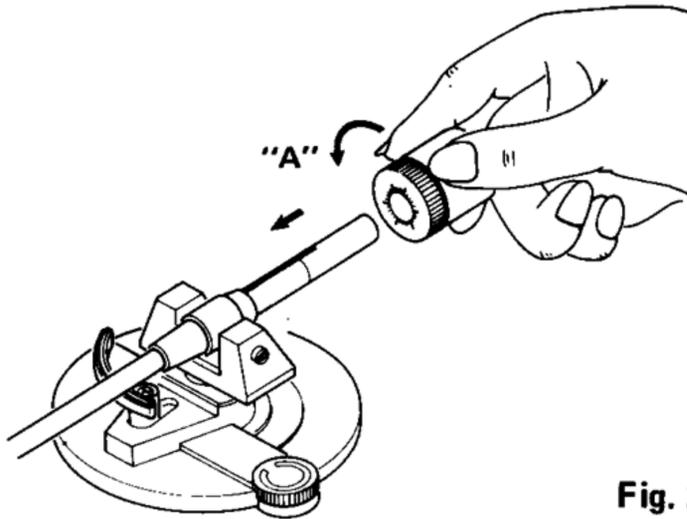


Fig. 2 Abb. 2

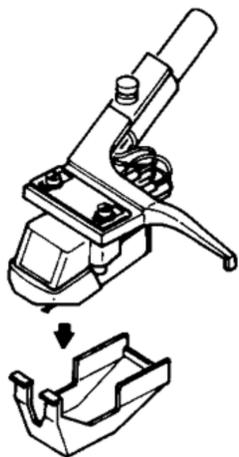


Fig. 3 Abb. 3

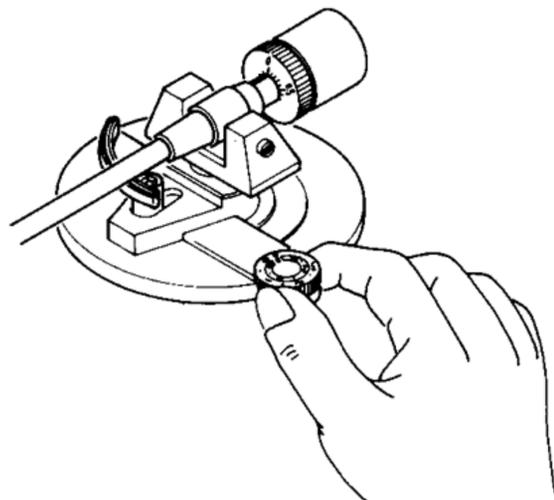


Fig. 4 Abb. 4

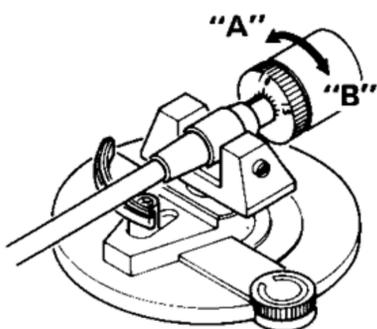


Fig. 5 Abb. 5

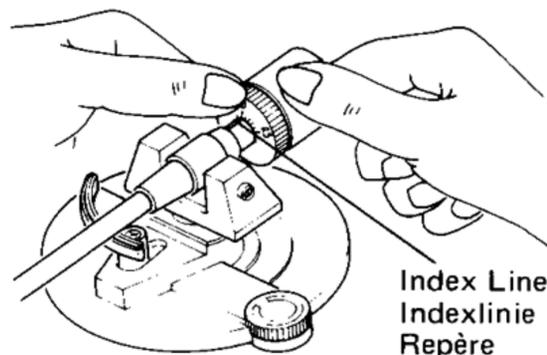


Fig. 6 Abb. 6

Index Line
Indexlinie
Repère

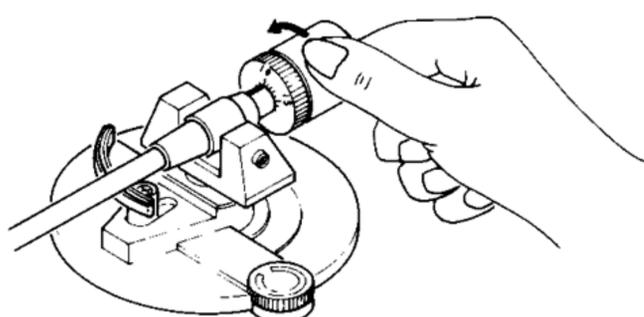


Fig. 7 Abb. 7



Fig. 8 Abb. 8

ADJUSTMENT

Tracking Force Adjustment

1. Remove the stylus cover from the stylus. (Fig. 3)
2. Turn the anti-skating knob to make its "0" mark aligned with the index mark. (Fig. 4)
3. Slide the counterweight to the middle of the weight shaft and turn until the tonearm is balanced with the stylus position nearly touching the record surface. (Fig. 5)
4. Hold the counterweight at the adjusted position and turn the tracking force dial until the "0" mark is aligned with the index line on the tonearm weight shaft. (Fig. 6)
*Take care not to turn the counterweight from the adjusted position, otherwise correct tracking force will not be obtained.
5. Turn the counterweight in the direction shown in sequence 0-1-2 until the "1.75" (JVC Z-1S) mark on the dial cap is aligned with the index line. (Fig. 7)
*Be careful not to touch the dial cap when turning the counterweight.
*Turning the dial cap alone has no effect on the tracking force.
6. Turn the anti-skating knob until the Index mark points to "1.75" (JVC Z-1S) mark on the knob. (Fig. 8)
Use the ● marked dial when employing a spherical stylus.
Use the ● marked dial for an elliptical stylus.

Overhang adjustment (Fig. 9)

Adjust the overhang as shown. Center lines of the cartridge and the headshell are to be aligned with. Take a distance of 32mm from the stylus tip to the edge of the headshell as shown. Tolerance of ± 1 mm will not harm performance.

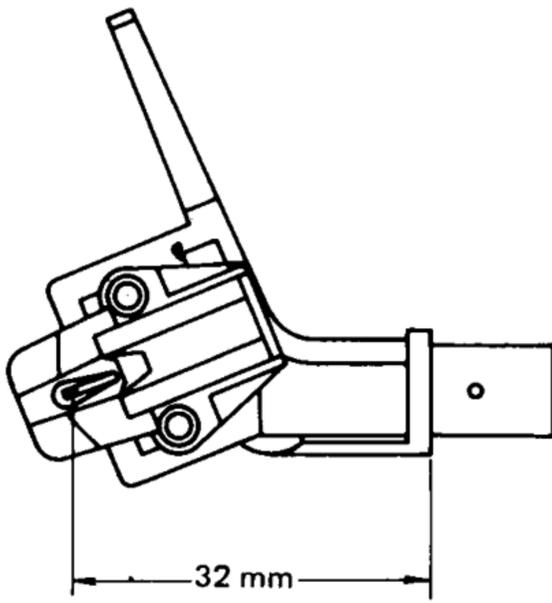


Fig. 9 Abb. 9

Tonearm elevator-height adjustment (Fig. 10)

The optimum clearance between the stylus tip and the platter mat is about 8mm when the tonearm rests on the tonearm elevator (the arm lifter button is pushed to "UP" position). Turning the adjusting screw clockwise lowers the height of the tonearm elevator and counterclockwise increases it.

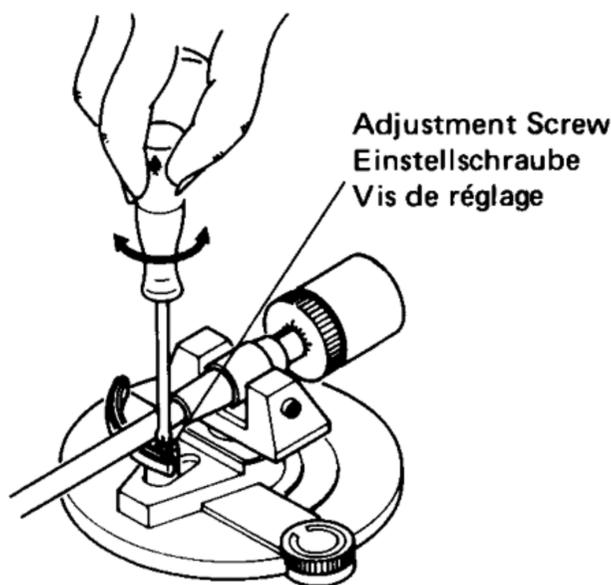


Fig. 10 Abb. 10

Cartridge mounting (Fig. 11)

Connect the lead wire socket to the appropriate pins of the cartridge, then secure the cartridge to the headshell with the two fixing screws. Leave the fixing screws slightly loose to make the overhang adjustment easier. The four headshell lead wires are colour coded as follows:

- Blue (to "LE" or "L-" of the cartridge)
- Green (to "RE" or "R-")
- Red (to "R" or "R+")
- White (to "L" or "L+")

Connection to a stereo amplifier

Firmly connect the white plug of the L-A31 output cord to the PHONO L (left) terminal of the stereo amplifier and the red plug to the R (right) terminal.

Note:

Confirm proper left-to-left and right-to-right channel connections.

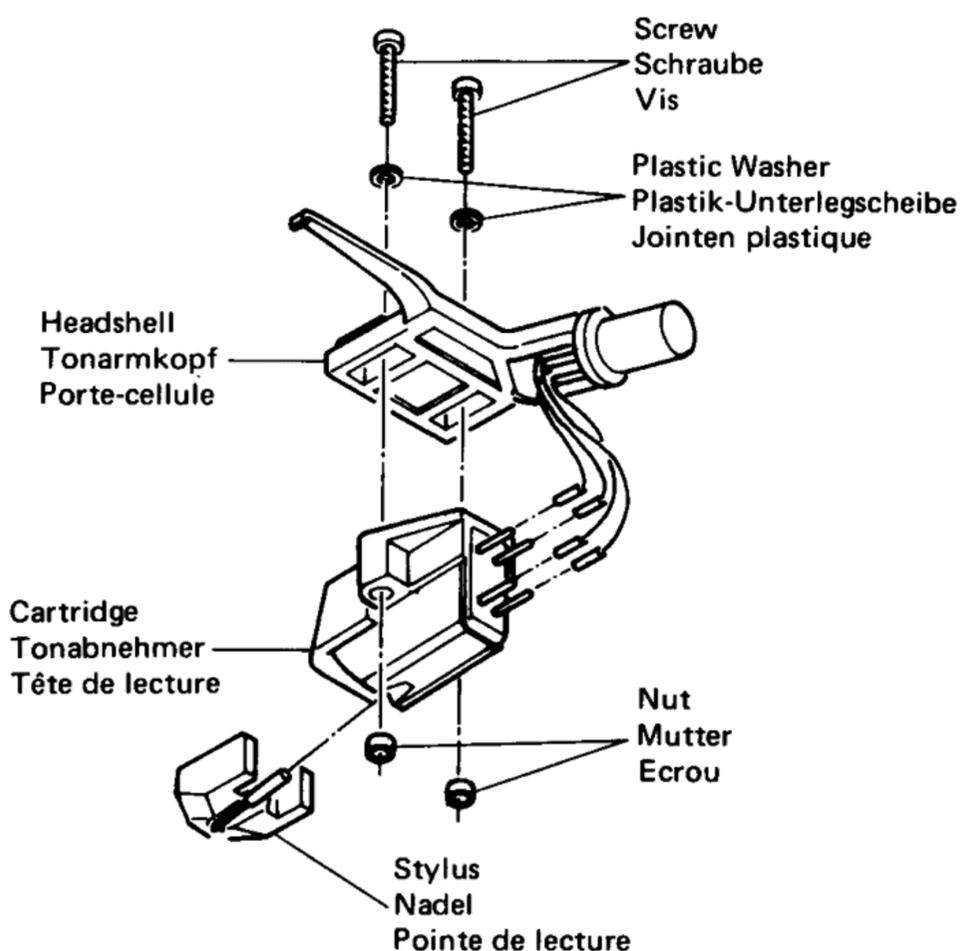


Fig. 11 Abb. 11

OPERATION (HOW TO USE)

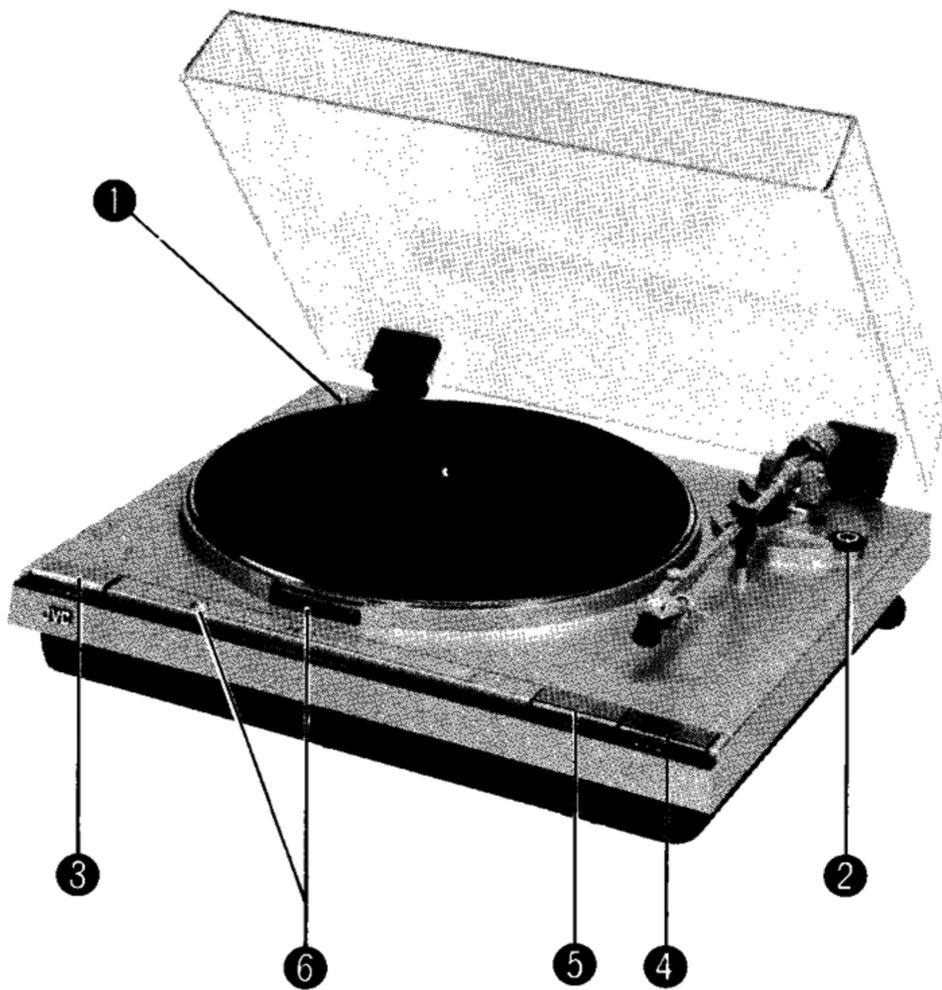


Fig. 12 Abb. 12

1. EP adaptor

Place this adaptor onto the center spindle when you play a record with a bigger center hole such as a doughnut record.

2. Anti-skating knob

This device cancels out the centripetal force that pulls the tonearm to the center of the platter. This prevents the stylus tip from skating toward the center of the platter and at the same time eliminates any excessive stylus tip force on the inner wall of the record groove.

Use the ● marked dial when employing a spherical stylus. Use the ● marked dial when employing an elliptical stylus or a Shibata stylus.

Turn the dial to the same number as the tracking force dial.

3. Speed select button

Select a proper position (33 or 45) of the speed select button in accordance with the rpm of the record.

33-1/3 rpm record (LP) "33"

45 rpm record (EP) "45"

4. Arm lifter button

This is used when you want the tonearm gently lifted up or lowered down. When you push it to "UP" position (3), the tonearm will be lifted up, and when you push it to "DOWN" position (4), it will be lowered down gently onto the record surface.

5. Stop button

When you stop playing the record, push the button and release it. The button returns to its original position and the tonearm lifts itself up, returns automatically to its rest and the platter stops rotating.

6. Pitch control knob and strobo disc

Strobe pattern and stroboscope

When speed adjustment is performed, observe the strobe pattern around the periphery of the platter for 33-1/3 disc and use the stroboscope provided for 45 speed.

Turn the speed adjustment knob until the dots appear to be stationary.

Be sure to use the dot pattern corresponding to the local line frequency.

- The dots appear to move in the same direction as the platter
Turntable rpm is too fast.
Turn the speed adjustment knob toward S (slow).
- The dots appear to move in the direction opposite to the platter
Turntable rpm is too slow.
Turn the speed adjustment knob toward F (fast).
- The dots appear to be stationary
Turntable rpm is proper.

Your new L-A31 is designed to constantly maintain the correct speed, once the fine pitch adjustment has been made despite fluctuations in the AC mains voltage and frequency (normally $\pm 0.4\%$ on average) which may cause slight changes in the strobe patterns due to lighting of the neon lamp, and speed adjustment is not required.

TROUBLESHOOTING

**What appears to be trouble may not always be real trouble.
Make sure first . . .**

No power

Is the power cable disconnected?

No sound

Are the input terminals of the amplifier properly connected?

Is the tape monitor switch of the amplifier turned to "ON"?

Is the volume control of the amplifier set to "MIN"?

Are the cartridge wires poorly connected or is the connection between the headshell and the tonearm loose?

Hum or noise during play

Are the cords with red and white plugs making contact with the "PHONO" terminals of the amplifier?

SPECIFICATIONS

TURNTABLE

Type	: Auto-return direct drive turntable
Drive Motor	: DC Servomotor
Speeds	: 33-1/3 and 45 rpm
Wow and Flutter	: Less than 0.03% (WRMS) 0.045% (DIN)
Signal to Noise Ratio	: More than 75 dB (DIN-B)
Speed Adjustment Range	: More than $\pm 3\%$
Platter	: 29.5 cm (11-3/5") Diameter Die-cast aluminum alloy

CARTRIDGE (Except the L-A31 for U.S.A., Canada and U.K.)

Model	: Z-1S
Type	: Moving magnet
Stylus	: 0.6 mil. diamond
Optimum Tracking Force	: 1.75 ± 0.25 grams (DT-Z1S)
Output	: 3 mV (1 kHz)
Frequency Response	: 10 to 25,000Hz (Z-1S)
Separation	: Better than 25 dB (1 kHz)
Load Resistance	: 47 k Ω to 100 k Ω
Compliance	: 30×10^{-6} cm/dyne (Static) 10×10^{-6} cm/dyne (dynamic)

TONARM

Type	: Statically balanced straight tubular arm with JVC developed TH (Tracking Hold) balancing system and tracking force dial in 0.1 gram steps.
Effective Arm Length	: 220 mm
Overhang	: 15 mm
Applicable Tracking Force Range	: 0 to 3 grams
Applicable Cartridge Weight	: 8.5 to 12 grams (including headshell)

GENERAL

Dimensions (cm)	: 42(W) x 35.5(D) x 11.5(H)
Net Weight	: 5.2 kg (11.4 lbs)
Power Supply	: See table on the back cover
Power Consumption	: See table on the back cover

Design and specifications subject to change for improvement without notice.

Power specifications

Countries	Line Voltage & Frequency	Power Consumption
U.S.A., Canada Continental Europe U.K., Australia U.S. Military Market Other Areas	AC 120 V ~ , 60 Hz AC 220 V ~ , 50 Hz AC 240 V ~ , 50 Hz AC 110/120/220/240 V ~ Selectable, 50/60 Hz AC 110/120/220/240 V ~ Selectable, 50/60 Hz	} 9 watts

Spannungsversorgung

Länder	Netzspannung & Frequenz	Leistungsaufnahme
USA, Kanada Kontinental-Europa Großbritannien, Australien US-Armee Andere Länder	Netz 120 V ~ , 60 Hz Netz 220 V ~ , 50 Hz Netz 240 V ~ , 50 Hz Netz 110/120/220/240 V ~ 50/60 Hz schaltbar Netz 110/120/220/240 V ~ 50/60 Hz schaltbar	} 9 Watt

Caractéristiques d'alimentation

Pays	Tension de ligne et fréquence	Consommation
Etats-Unis, Canada Europe continentale Royaume-Uni, Australie Marche militaire américain Autres pays	CA 120 V ~ , 60 Hz CA 220 V ~ , 50 Hz CA 240 V ~ , 50 Hz CA 110/120/220/240 V ~ commutable, 50/60 Hz CA 110/120/220/240 V ~ commutable, 50/60 Hz	} 9 watts

JVC

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