

JVC

INSTRUCTION BOOK

4-CHANNEL/
2-CHANNEL
COMPATIBLE
HEADPHONES

MODEL
5944



CAUTIONS

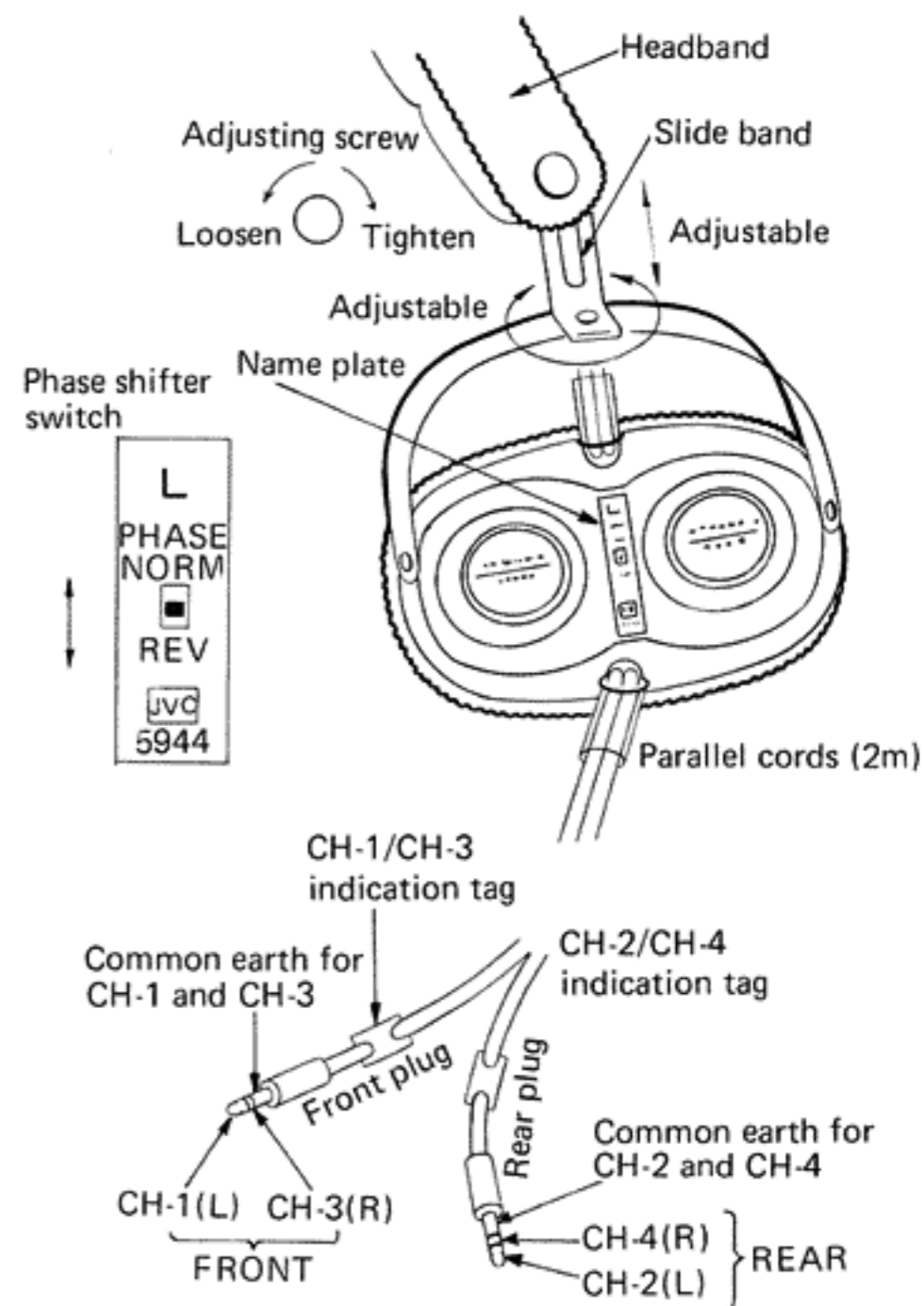
1. If the earpads do not fit your ears tightly air leakage will result and cause low frequency sounds to deteriorate.
2. Don't connect them directly to an amplifier whose output is over 100mW, or the delicate voice coils will be damaged. Be sure connect a resistance of 100 to 300 ohms in series to lower the output power. This will not lessen the tone quality.
3. Clean the earpads, headband and earcups with a piece of soft cloth and neutral cleaner.

CONSTRUCTION

As shown in the figure, the length of the slide band can be varied depending on the size of your head. The position of the earcups can also be adjusted. Try to make it suit you as well as you can. The earpads are made of soft artificial leather and cushioning gives you comfortable monitoring.

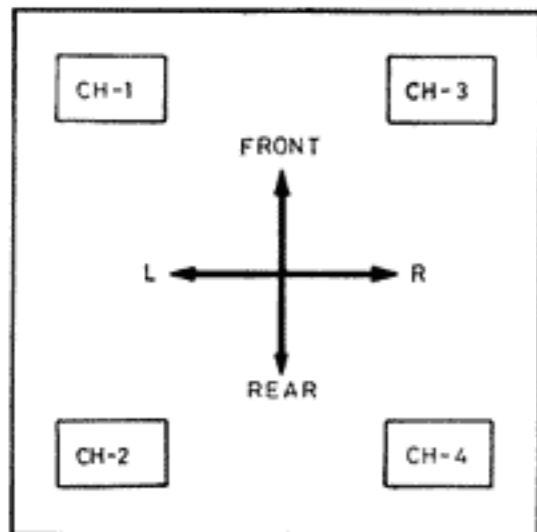
PHASE SHIFTER SWITCH

Normally set this switch to NORM (in-phase). For some discrete or matrix sources the reproduced sound can be improved with the switch set to REVERSE (anti-phase). By changing the position of this switch you can make the sound from the headphones as real as sound in a concert hall. When you are listening to a 2-channel source from a single jack use the optional TWC-1 twin cord connector to improve the performance of your headphones.

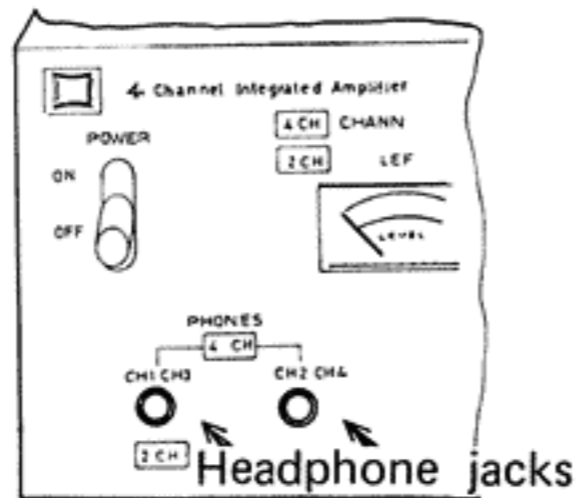


OPERATION

1. Channel indication tags are attached near the end of the signal cords as shown in the figure. The connections of the 5944 are standard 4-channel connections. The plugs marked CH-1 and CH-3 are from the front left and right units and those marked CH-2 and CH-4 are from the rear left and right units. The end of the plug is the left channel connection.
2. Connection to 4-channel stereo
Two headphone jacks are provided on the front panel of 4-channel integrated amplifiers and receivers. Just plug in there.
3. Connection to 2-channel stereo
Plug the front or rear plugs into the headphone jack. If you use the optional twin cord (TWC-1), the front and rear units operate in parallel and each unit gives the same volume at a lower level, producing distortion free sound.



2-2 System speaker arrangement

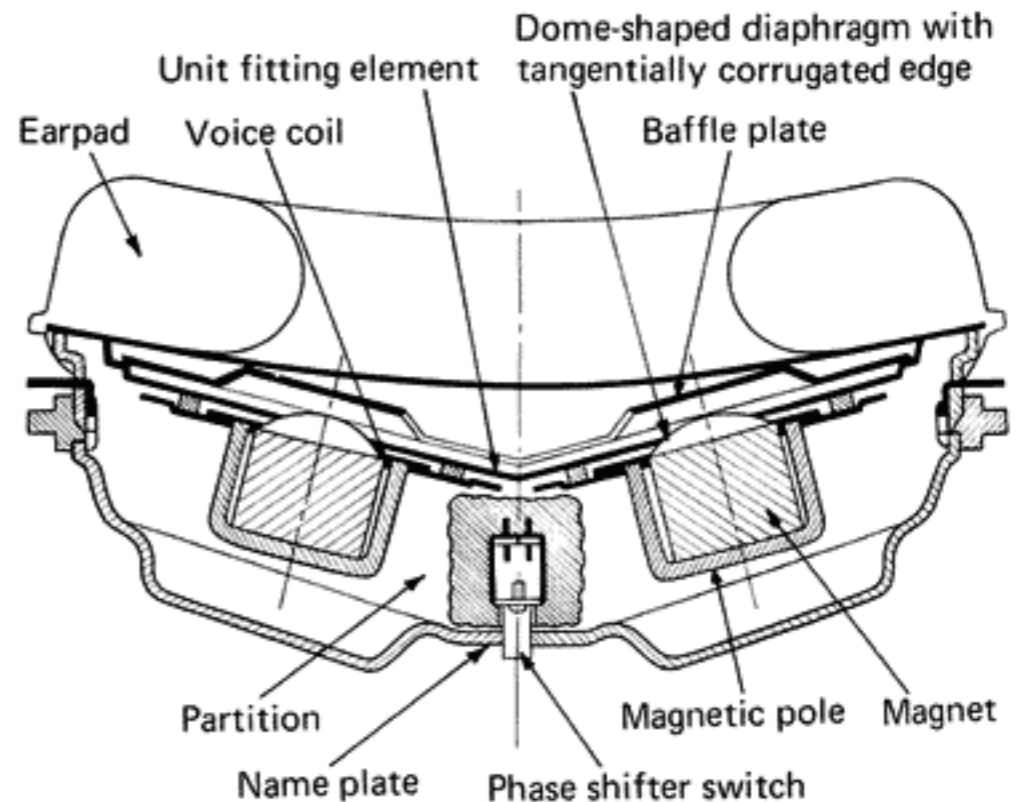


For 4-channel reproduction headphone jacks on a 4-channel amplifier.

FEATURES

4-Channel/2-Channel Compatible

Personal and private listening is yours. Whether you are listening to 2-channel or 4-channel music, the music is yours alone. Instead of having one plug like conventional stereo headphones the 5944 headphones has two ; one for the front channels and one for the rear channels. Each ear-piece contains two earphones, what you've really got is a pair of stereo headphones built as one unit.



Phase Shifter Circuit (Pat. Pending in U.S.A. and Japan)

The difference between listening to stereo music from speakers and from headphones is the inescapable fact that, whereas sound from one speaker interacts with sound from the other speakers in the air, with headphones this is not possible. For some kinds of music and recording techniques this is OK but for other music it detracts from listening pleasure. JVC's phase shifter circuit is a unique way to solve this problem. On each earcup there's a switch to activate the circuit so the rear channel phase is 180° different from that of the front channel. A whole new character will be given to 4-channel sound if these are switched to REVERSE.

Dome-Shaped Diaphragm

In each of the four moving coil speaker units there's a 1-1/2" diameter and 1/500" thick transparent Mylar diaphragm. Because of its structure, which gives it an excellent rigidity, the headphones give a steady frequency response which includes crystal clear highs as well as rich deep lows and is flat over the wide range from 20 to 20,000Hz. The tangentially corrugated edge of the diaphragm has low mechanical strain and gives distortion free lows. Only 1 or 2mW are necessary to get the best out of the highly efficient 5944.

Comfort increases listening pleasure

Even if you've been monitoring recording for hours on end you won't feel at all uncomfortable. The headband and earpads are tailor made from extremely soft plastic to fit any user with comfort and tightness so that none of the really deep lows escape.

SPECIFICATIONS

Type	: Moving coil 4-channel/2-channel compatible headphones
Frequency response	: 20 – 20,000Hz
Impedance	: 8Ω (at each individual channel) 11Ω (at each terminal)
Nominal input	: 1mW
Maximum input	: 100mW
Distortion factor	: Less than 0.5% (at 1mW)
Cord	: 6 ft 7 in with 3-pin plug
Weight	: 1.1 lbs (without cord) 1.3 lbs (with cord)
Diameter of diaphragm	: 1-1/2"
Weight of diaphragm	: 0.12 dr. (including coil) 0.05 dr. (without coil)
Diameter of coil	: 3/4"
Total magnetic flux	: 7,500 maxwells
Flux density	: 5,300 gauss

NOTE : To listen to 2 channel stereo sound with the 5944 :
When you want to enjoy 2 channel stereo, insert either the plug marked CH-1 and CH-3 or CH-2 and CH-4 into the 2 channel headphone jack.