

**LA7040**

monolithic linear IC

CIRCUIT DRAWING  
No.2138**VTR AUDIO RECORDING/PLAYBACK  
CIRCUIT**

3007A

The LA7040 is a monolithic IC that contains not only recording/playback preamplifiers, a line amplifier, a recording amplifier, an ALC circuit heretofore in use but also a recording/playback/muting logic control circuit, an analog switch on a single chip so that the VTR audio signal block can be especially simplified. With the logic control system adopted, changing only the recording/playback control pin voltage enables the amplifiers and signal routes to automatically respond to each mode of recording, playback, muting. Therefore, it is possible to eliminate the use of many switches (relays) and complicated wiring usual with conventional systems, thereby contributing a great deal to the simplification, space-saving of board and the improvement in reliability.

**Features**

- Contains all recording/playback amplifiers required for VTR audio signal system.
- Capable of setting each mode of recording, playback, muting by changing only the control pin voltage.
- Very small pop noise occurring at the time of mode selection.
- Easy to adjust recording level, playback sensitivity.
- Improvement in reliability due to electronic switch.

**LA7042**

monolithic linear IC

CIRCUIT DRAWING  
No.2137**VTR AUDIO RECORDING/PLAYBACK  
CIRCUIT**

3021B

**Features**

- Contains all recording/playback amplifiers required for VTR audio signal system.
- Capable of setting each mode of recording, playback, muting by changing only the control pin voltage.
- Capable of performing muting operation by applying only voltage to control pin.
- Built-in ALC circuit and ALC detection diode.
- Good S/N at the time of recording due to 2-stage configuration of ALC. (ALC is applied to microphone amp. and line amp. input.)
- Very small pop noise occurring at the time of mode selection.
- Line output available even at the time of muting because muting at recording mode is applied to recording amp. output.
- Head select switch to short playback pin of recording/playback tape head to GND at recording mode (By using jointly with switch circuit of discrete transistors at recording head pin, no relay is required.)
- Improvement in reliability due to electronic switch.

**LA7043M**

monolithic linear IC

CIRCUIT DRAWING  
No.2140**VTR AUDIO RECORDING/PLAYBACK  
CIRCUIT**

3036B

**Features**

- Contains all recording/playback amplifiers required for VTR audio signal system.
- Capable of setting each mode of recording, playback, muting by changing only the control pin voltage.
- Capable of performing muting operation by applying only voltage to control pin.
- Built-in ALC circuit and ALC detection diode.
- Good S/N at the time of recording due to 2-stage configuration of ALC. (ALC is applied to microphone amp. and line amp. input.)
- Very small pop noise occurring at the time of mode selection.
- Line output available even at the time of muting because muting at recording mode is applied to recording amp. output.
- Line output can be heard direct with earphone because line amp. is capable of driving earphone.
- Improvement in reliability due to electronic switch.
- High impedance (150kohm) of equalizer amp.