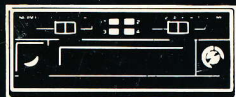


OPERATING INSTRUCTIONS



8TRACK CAR STEREO A-109



JETSTAR 8

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FEATURES

1. The Model A-109 is a high-fidelity stereo player specifically designed for use in automobiles. It can easily be played even while an automobile is running.
2. Volume and balance controls, being a smart-looking slide type, can be adjusted with absolute ease and offers extremely simple and straightforward operation.
3. Four indicator lamps illuminate to indicate just which channel is now in performance and also permit easy and effortless channel selection simply by means of a channel selector. Each channel can also automatically be switched so that continuous performance is possible over the entire channels.
4. Tone control is continuously variable to offer free and effortless selection of a desired tonal quality ranging from bass to treble.
5. It has superior resistance against vibration and shocks due to its solid-state OTL and printed circuit construction. Demonstrating stabilized performance even while traveling on bumpy roads.
6. It can easily be installed in a narrow space of any car.

Balance Adjustment Knob

This knob is used to adjust the volume balance of the left- and right-hand side speakers. Sliding it to the left increases the volume of the left-hand side speaker, while sliding it to the right increases the volume of the right-hand side speaker. When the knob is placed right in the middle, the volumes of the left- and right-hand side speakers should equal.

Channel Selector Button

Although each channel can be automatically switched, this button should be depressed when it is desired to select a desired channel. This knob selects 1-2-3-4-1 in that order channel-by-channel as the button is depressed.

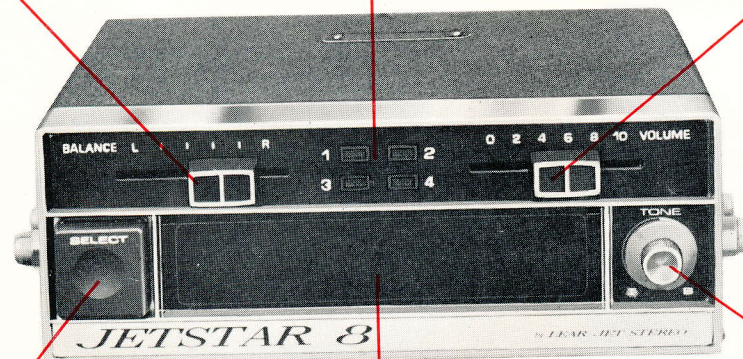
THE CONTROLS AND THEIR FUNCTIONS

Channel Indicator Lamp

One of 1-4 channel lamps will illuminate to indicate which channel is now in performance, when the stereo cartridge is inserted all the way in.

Volume Control Knob

Sliding it to the right increases the volume.



Cartridge Compartment

This is where the stereo cartridges are inserted. (Pull out the cartridge up to the mid-point until the lamp goes off when you want to stop the stereo player)

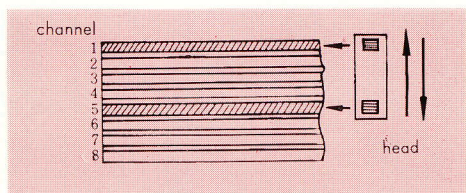
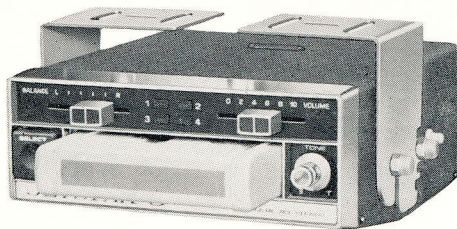
Tone Control Knob

A desired tonal quality can be selected by operating this knob. Both the bass and treble can be played over a wide range if the marking is positioned right in the center. Sharp and clear tone can be obtained by turning this knob clockwise, while dynamic bass tone can be increased by operating this knob counterclockwise.

OPERATIONAL METHODS

This unit is automatically turned on when the stereo cartridge is firmly inserted as shown in the drawing. With the lamp on and music playing, you can then make adjustment to select the right volume and tone you want for your listening pleasure. The channel can automatically be changed, or you can select the channel you want by pushing the button. Music can be stopped by pulling the cartridge out.

Note: Please make sure to remove the cartridge when the stereo is not in use because, when the lamp is on power is still applied even though music is not playing.



SOME HELPFUL HINTS

1. Both tone and volume will drop in quality if stereo heads are soiled by dust. To prevent this, wipe the cartridge emplacement and magnetic heads carefully by a soft cloth soaked in alcohol and wrapped around a wood pencil point. Avoid using metal objects for cleaning the head since the magnetic abrasion could damage the heads.
2. 8-track stereo cartridge; As shown by the drawing there are eight tracks for recording on the tape. As stereo requires only two tracks for recording, music is then recorded in four channels, namely, Channel 1 (track 1-5), Channel 2 (track 2-6), Channel 3 (track 3-7), and Channel 4 (track 4-8). The 8-track stereo cartridge is completely automatic in making these changes. It can be played repeatedly for many times. You can also select the music you want by merely pushing the channel changeover button at any time by a light touch of your finger.
3. In case of a car stereo set which draws its power from the engine switch.

If this is the case, make certain always to switch off the engine after pulling out the tape cartridge up to a mid-point and stopping the play. But, if the engine is switched off while keeping the cartridge in its place on the set, the play will stop but you may damage the tape by leaving it inserted over a long period of time without playing.

INSTALLING GUIDE

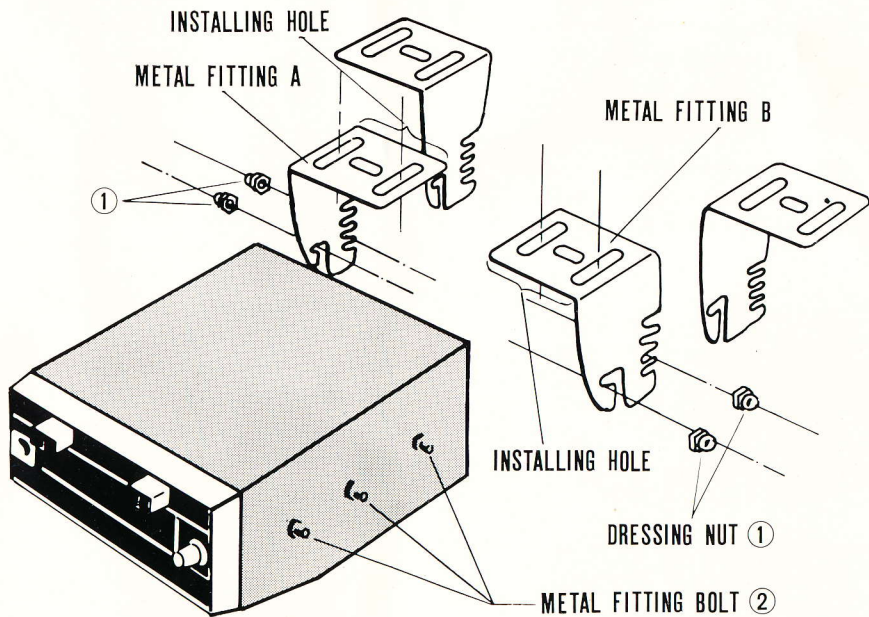


Fig. 1

■ Installation by Hanging

1. Remove the four dressing nuts ① from the sides of the set.
2. Fix metal fittings A and B to where the set is to be installed and tighten temporarily with accessory bolts and nuts. Metal fittings A and B can be fixed inner or outer direction against the set. (See Fig. 1)
3. Install the set to the metal fittings A and B. Affix four bolts on both sides of the set and tighten the set with the dressing nuts.

Note: Fix the angle of the set at your choice as it can be adjusted somewhat by the metal fittings A and B.

4. After installing the stereo set, tighten metal fittings A and B with nuts completely until it becomes immovable.

Note: The auxiliary metal fitting C may not be needed for use when metal fittings A and B are sufficient to firmly fix the set.

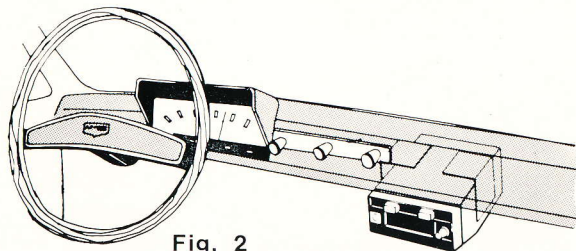


Fig. 2

■ Installation on the Floor

1. Remove the four dressing nuts ① from the sides of the set.
2. Firmly install metal fittings A and B on the floor space where set is to be installed and tighten temporarily with bolts and nuts.
3. Install the set to the metal fittings A and B. Affix four bolts on both sides of the set and tighten the set with the dressing nuts.

(In this instance, the relations between the set and metal fittings A and B become the reverse of those seen when the set is installed by hanging as shown in the Figure 4)

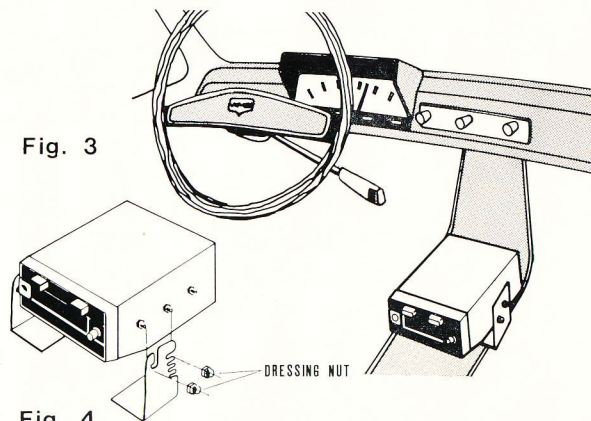


Fig. 3

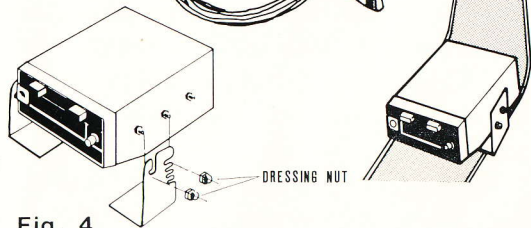


Fig. 4

■ Installation on the Dash-Board

Put into the dash-board as shown in the Figure 5. The metal fitting bolts ② on both sides of the set can be taken off.

Firmly fix the set so that it will not move.

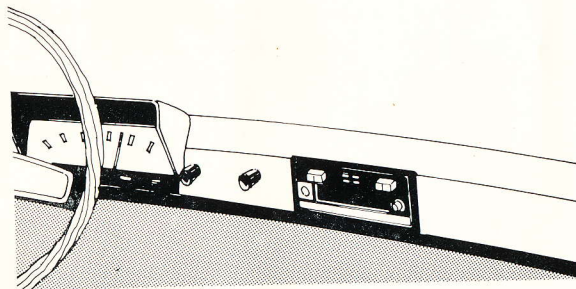


Fig. 5

■ Example for Use of Auxilliary Fittings

Use the two attached metal fittings shown (Fig. 1) with attached screws and nuts when installing the car stereo tape player in an automobile. These auxiliary fixtures can be properly bent to fit contour of area. (Fig. 6)

The car stereo player can be installed in automobiles in several ways depending on the type of cars involved. However, the following figure shows several examples.

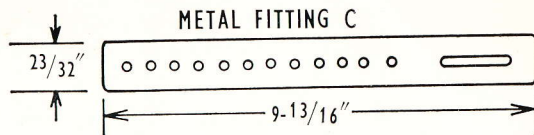
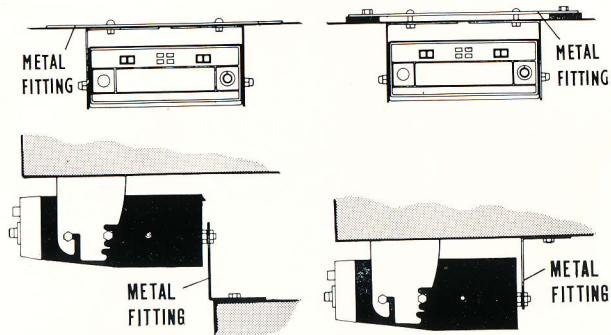


Fig. 6

■ Cautions

1. Vibration will result in unstable rotation of tapes in the stereo if the set is not firmly mounted. Make sure, therefore, that the set is firmly in its place.
2. The set can be installed in many ways depending on the types of vehicle involved. Since space is limited in all vehicles, make sure that the set does not interfere with driving and movement of persons in the installed position.



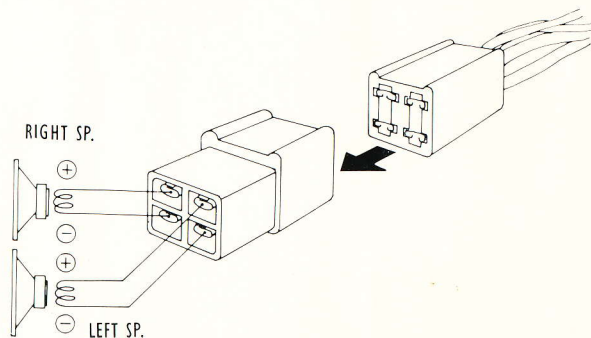
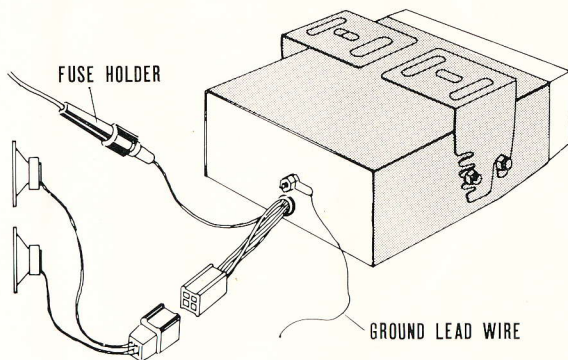
■ Connection of Power Circuit

The power circuit differs from one to another, depending upon each type of automobile involved. Therefore, care should be taken when making power connection. Failure to wire set properly may result in damage to unit. This Model A-109 is specifically designed for installation in negative(-)grounded automobiles which account for a majority of present automobiles manufactured in the world. But, check polarity of automobile chassis, just to be sure, as this model can not be used for plus (+) grounded automobiles. Our Model A-119 is adaptable to plus (+) grounded automobiles.

To make a proper wiring, connect the ground lead wire (black) to either the minus terminal or chassis of automobile. Next connect the power lead wire (white) to the "plus terminal" to complete the necessary wiring.

■ Connection of Speakers

Using the attached 4P plug, make the connection with the connector as shown in illustration. If your Hi-Fi speaker is going to be used, make connections as shown by the diagram.



SPECIFICATIONS

Dimensions	6-5/16"×7-3/16"×2-13/16"
Weight	5.5 lbs
Power Source	10 ~16 V DC
Tape Cartridge	LEAR JET PAK TYPE (8 Track)
Transistors	12
Diode	1
Thermistors	4
Power Output	4 W × 2 (Max.)
Tape Speed	3-3/4 ips
Playing Time	1 hour
Accessories	Tape Cartridge, Metal Fittings, Screws, 4P plug

LEAR JET

*STEREO 8**

LEAR JET STEREO, INC.

13131 Lyndon Avenue, Detroit, Michigan 48227 • Telephone (313) 272-0730