

**F**leetwood

*Rhapsody*

**TWIN-AMPLI HI-Z STEREOGRAM**

**MK2 FZ696 S.F.**





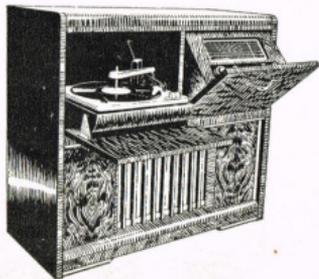
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## *Rhapsody*

**MK2 FZ696 S.F.**

The Rhapsody is an 11 multifunction valve high-fidelity instrument incorporating Fleetwood Hi-Z transformerless output stages in both amplifier channels, ensuring the best possible reproduction of both stereo and monaural records and excellent reception of radio stations, both local and distant.

This booklet has been prepared for you as a guide to obtaining the fullest enjoyment from this magnificent stereogram.



**TWIN-AMPLI HI-Z STEREOGRAM**

## **INSTALLATION**

This set is designed to run from A.C. current. Connection to D.C. mains will result in instant and extensive damage and will void the warranty.

## **AERIAL & EARTH**

The ferrite rod aerial built into this receiver is extremely sensitive, and will ensure excellent reception on the broadcast band of 515 to 1630 kc/s. For short-wave reception an outdoor aerial, 50 or 60 feet in length, and as high as possible, will give excellent results. An earth connection, whilst not essential, will improve reception and reduce interference.. This connection should be as short as possible and should be connected to a copper rod sunk into the ground or to a water pipe. Do not connect to gas pipes.

## **SATELLITE SPEAKER**

### **FOR STEREO REPRODUCTION**

This speaker must be Hi-Z (800 ohms). There are available several suitable Fleetwood complete speaker/cabinet combinations. When satellite speaker is not in use the dummy plug must be inserted in the socket.

## **SERVICE**

If your Rhapsody ceases to operate, check first for obvious faults, such as power plug pulled out or switched off or fuse blown on household mains. If this check does not reveal the trouble, contact your nearest Fleetwood retailer. The set is designed for best performance with Mullard valves and components, so any replacements should be made with the corresponding Mullard type.

## CONTROLS

From left to right the controls are as follows:

### 1. On/off

switch and volume control.

### 2. Tone control

Turn clockwise to increase treble response. To cater to today's taste the middle register of this receiver is accentuated.

### 3. Balance

This control is to balance the output of both channels when playing stereo records.

### 4. Selector

This control has 5 positions, as follows:

- (a) Stereo
- (b) Binaural
- (c) Broadcast band 515 to 1630 kc/s
- (d) Short-wave 5.4 to 19 mc/s
- (e) Band-spread

### 5. Tuning

## POWER OUTPUT

Maximum power on each channel is 5 watts, which gives a generous reserve and can fully reproduce transients.

## SPEAKERS

Your Rhapsody is equipped with 3 Hi-Z speakers.

- 1 x 8" AD3800A (800 ohms)
- 2 x 5" AD3500BM (400 ohms each in series)

These speakers, in combination with the acoustic design of the cabinet, cover the full range of audio frequencies used in modern recording and broadcasting.

## VALVES

The Rhapsody is equipped with 11 multifunction valves giving 16-valve performance. These are:

1 x ECH81	1 x EZ80
1 x EBF89	1 x EZ81
1 x ECC83	2 x EBC81
4 x EL86	

## RECORD CHANGER

Your Rhapsody is equipped with a Philips automatic stereo record-changer, AG1014S. It is supplied with two pickup heads—

- (a) Type 3063 for stereo records
- (b) Type 3016 for monaural records

This unit may be used as a fully automatic changer or as an automatic or manually operated single player.

### Description

This automatic record changer is capable of playing and changing 78, 45, 33 1/3 and 16 2/3 r.p.m. records. The changer will perform the following operations:

- (1) Up to ten records, 7, 10 or 12 inch, mixed in any order, but of the same speed and of the same type ("Standard" or "Micro-groove") may be played automatically and changed in succession with automatic stop at the completion of the last record.

- (2) Any record can be rejected during playing and automatically replaced by the next one.
- (3) The playing of records can be stopped at the end of any record and also during the playing of a record.
- (4) Play a single 7-inch, 10-inch or 12-inch record either automatically or manually. For 7-inch records with the large centre hole an adaptor is necessary.

The output from the pick-up is muted during the changing cycle, thereby preventing "clicks" and electrical noises from being heard between records.

This instrument is designed to operate on 230 volts A.C. 50 cycles per second mains supply.

### **Unpacking**

Remove the tie wires, transit screws and cardboard packing on the turntable and ensure that the record changer is fully floating on its four mounting springs before putting into use. All packing material should be kept for possible future use, should it be necessary at any time to transport the equipment in which the record-changer is fitted.

The pick-up heads are packed in metal foil tubes containing a moisture-absorbent agent.

Unpack the pick-up heads carefully, remove the needle protector and push the required pick-up head on to the socket on the pick-up arm.

Fit the long spindle to the centre turntable hole and check that it drops down and locks, the ledge on which the records rest pointing towards the overarm support column. Place the overarm in its socket on the support column and turn it clear of the centre spindle.

## **OPERATING INSTRUCTIONS**

### **Radio:**

With power switched on at the power point, proceed as follows:

1. Switch receiver on by turning volume control about half a turn clockwise. Wait about  $\frac{1}{2}$  minute for valves to warm up.
2. Turn selector switch to function required—that is, Broadcast or Short-wave.
3. Tune in station required with the tuning control. On the broadcast band the pointer will show the position of the station, but the point of correct tuning may be very slightly off, and should be set by tuning until the clearest tone is achieved.
4. Set volume control to desired level, and tone control to suit taste.

### **Record Changer—Monaural Records:**

1. Stack a number of records (maximum 10) on the centre spindle.
2. Turn overarm back and place it over the spindle and on the records.
3. Set the speed selector to the speed indicated on the records to be played.
4. Preset record size button to 7" position. This should be done by pushing the STOP button fully down.
5. Fit the AG3016 pickup head (monaural). The correct dot should be in line with the centre ridge of the pick-up arm. M (red dot) for microgroove or N (green dot) for standard groove records.

6. Select "Binaural" on the "selector" control. If a satellite speaker is connected your monaural record will now be reproduced equally through both speakers. The "balance" control will have no effect. Whilst this is not stereophonic reproduction, it does effect pleasant "spreading" of the sound. If no satellite speaker is connected the reproduction will be standard monaural.
7. Depress START/REJECT button until the pick-up starts to move. The record-changer will now play through the whole stack automatically and will stop after completion of the last record. If desired, a record can be rejected during playing as soon as the pick-up arm has come to rest on the record; press START/REJECT button and hold down till the pick-up starts to move. If further playing is not required, press STOP button. To stop the equipment after completion of any record then being played operate the STOP button.

## NOTE

For automatic playing do not use badly warped records or those which are either abnormally thick or very thin. Thick records will generally give satisfactory results if the spindle hole is relieved of any excess label. The normal thickness of records is between 1.7 and 2.5 millimetres.

It is advisable to remove the stack of records after playing is finished, so as to avoid warping.

## REMOVAL OF RECORDS

Lift up the overarm and turn it clear of the centre spindle, which can then be removed. When replacing the spindle, the ledge

on which the records rest should point towards the overarm support column.

### As Record Player (single records)—Automatic or Manual:

1. Pull overarm straight up and turn it out of the way. (It may be removed altogether if so desired.)
2. Remove record spindle.
3. Place record on turntable.
4. Select correct speed.
5. Set record size button to appropriate size if the player is to perform automatically. If the player is operated manually in the case where it is desired to play only a portion of a record or records of an abnormal size, no adjustment of the record size button is necessary.
6. Fit the monaural head. The correct dot should be in line with the centre ridge of the pick-up arm. M (red dot) for micro-groove or N (green dot) for standard groove records.
7. Select "Binaural" on the "selector" control. If a satellite speaker is connected your monaural record will now be reproduced equally through both speakers. The "balance" control will have no effect. Whilst this is not stereophonic reproduction, it does effect pleasant "spreading" of the sound. If no satellite speaker is connected the reproduction will be standard monaural.
8. If operated manually, lift pick-up from its rest and place it on the record by hand. For automatic operation depress START/REJECT button until pick-up starts to move.
9. After the pick-up has lowered itself on the record, press the STOP button, otherwise the record will be repeated. For an

immediate interruption of playing, press first the START/REJECT button till the pick-up starts to lift, then press STOP button.

### Playing Stereo Records:

The foregoing instructions apply equally to the playing of stereo records, except that:

1. The "Stereo" pickup head MUST be fitted. Whilst standard L.P. records can be played with a stereo head, the use of a standard head on stereo records will result in immediate and extensive damage to the record.
2. The selector control must be set to "Stereo".
3. The balance control should be adjusted to give you equal output on each channel. Turning in a clockwise direction should increase the volume of the right-hand channel and decrease the left, whilst turning anti-clockwise should increase the left-hand volume and decrease the right-hand.

When your stereogram leaves the factory the internal speakers are connected as the "left-hand" channel (facing the set). Depending on your room layout, etc., it may be that you will place the satellite speaker to the left of the set. In this case you will find that the operation of the balance control as described above has in fact the opposite effect. This is easily rectified by changing over the plugs which connect the internal and satellite speakers. To achieve this:

1. SWITCH OFF SET.
2. Remove the 4-pin miniature plug connecting the internal speakers to the main chassis from its socket and plug it into the 4-pin socket on the small auxiliary chassis.
3. Remove the 2-pin plug connecting the satellite speaker to the

small chassis from its socket and plug it into the 2-pin socket on the main chassis (marked "Binaural").

It should be realised that it is not possible to achieve correct balance by merely adjusting the control for equal volume, as certain instruments of the orchestra being reproduced may be predominant at any particular time.

The best method is to have a record with a "test signal". This signal will be equal on both channels and balance is achieved when the listener standing equidistant from both speakers appears to hear the test signal coming from a point half way between the two. If the sound appears to come from the two speakers individually, reverse the plug connecting the satellite speaker. When speaker plugs are to be removed the set MUST be switched off.

However, you will find that with a little practice you will soon become adept at balancing even without a test signal. You will find that greater listening pleasure is possible as you can balance the orchestra to suit your own taste.

**WARNING: The speed selector lever should always be placed in the "O" position when the player is not in use, otherwise the rubber driving wheel may in time be deformed and cause unpleasant flutter or "wow".**

## MAINTENANCE

Whilst the record-changer AG1014S requires little maintenance, it should be lubricated and inspected every 12 months by your Fleetwood retailer. The detachable pick-up heads should be removed for inspection at more frequent intervals and replaced when necessary.

## **DON'T DAMAGE YOUR RECORDS**

Dirt will damage your valuable LP records, and these records will collect dust no matter how carefully kept. Before use, wipe lightly with a Philips Discleaner anti-static cloth and your records will repel dust and not attract it.

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