# JVC

# SERVICE MANUAL

## CASSETTE RECEIVER

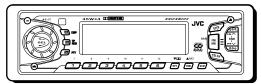


Area Suffix

E... Continental Europe



#### KS-FX922R









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## **Adjustment method**

- Test Instruments regired for adjustment
- 1.Digital osclloscope(100MHz)
- 2. Frequency Counter meter
- 3. Electric voltmeter
- 4. Wow & flutter meter
- 5.Test Tapes

VT724 ----- for DOLBY level measurement
VT739 ----- For playback frequency measurement
VT712 --- For wow flutter & tape speed measurement
VT703 ----- For head azimuth measurement
6.Torque gauge ----- Cassette type for CTG-N
(mechanism adjustment)

Measuring conditions(Amplifier section)

Power supply voltage ----- DC14.4V(10.5~16V) Load impedance -----  $4\Omega$ (2Speakers connection) Line out ------  $20k \Omega$ 

Standard volume position

Balance and Bass, Treble volume . Fader

:Center(Indication"0")

Loudness, Dolby NR, Sound, Cruise: Off

Volume position is about 2V at speaker output with

following conditions. Playback the test tape VT721.

AM mode 999kHz/62dB,INT/400Hz,30% modulation signal on receiving.

FM mono mode 97.9MHz/66dB,INT/400Hz,22.5kHz

deviation pilot off mono.

FM stereo mode 1kHz,67.5kHz dev. pilot7.5kHz dev.

Output level 0dB(1  $\mu$  V,50  $\Omega$ /open terminal).

Tuner section

**BAND STEP** 

FM: 100kHz (Seek), 50kHz (Manual)

AM: 9kHz step

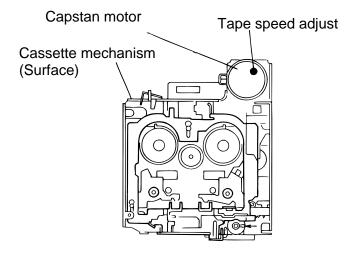
#### **Preset Memory Initialization**

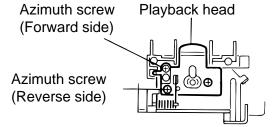
Dond	Preset Memory					
Band	M1	M2	МЗ	M4	M5	M6
FM(MHz)	87.5	89.9	97.9	105.9	108.0	87.5
AM(kHz)	153	216	603	999	1404	1620

#### **DUMMY LOAD**

Exclusive dummy load should be used for AM and FM dummy load, there is a loss of 6dB between SSG output and antenna input. The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.

Arrangement of Adjusting
 Cassette Mechanism Section





### Arrangment of adjusting

Head amplifier board section (Reverse side)

VR402:Rch (Dolby NR Frequency response adj)

(Dolby NR Frequency response adj)

### ■Information for using a car audio service jig

1. We're advancing efforts to make our extension cords common for all car audio products. Please use this type of extension cord as follows.

to Main board

- 2. As a U-shape type top cover is employed, this type of extension cord is needed to check operation of the mechanism assembly after disassembly.
- 3. Extension cord : EXTKSRT002-18P ( 18 pin extension cord ) For connection between mechanism assembly and main board assembly.

Check for mechanism driving section such as motor ,etc..

### **■**Disassembly method

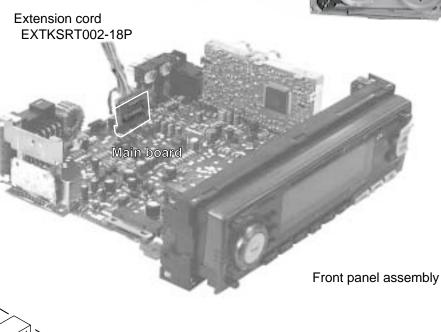
- 1. Remove the bottom cover.
- 2. Remove the front panel assembly.
- 3. Remove the top cover.
- 4. Install the front panel.

to Cassette mechanism

5. Confirm that current is being carried by connecting an extension cord jig.

#### Note

Available to connect to the CP701 connector when installing the front panel.

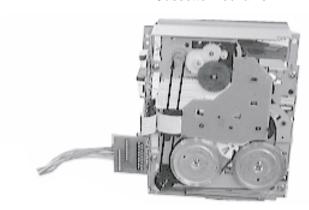


Cassette mechanism

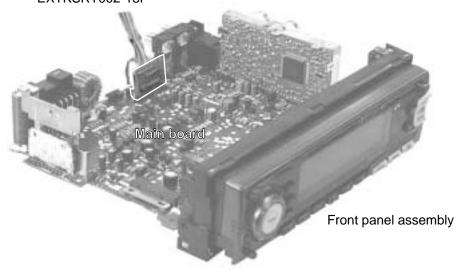
### **■** Extension cord

The mechanism should be directly connected to the board using the extension wire. EXT-KSRT002-18P

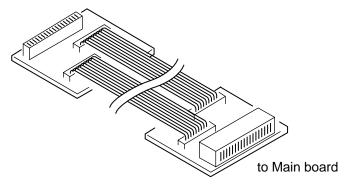
Cassette mechanism



Extension cord EXTKSRT002-18P



#### to Cassette mechanism

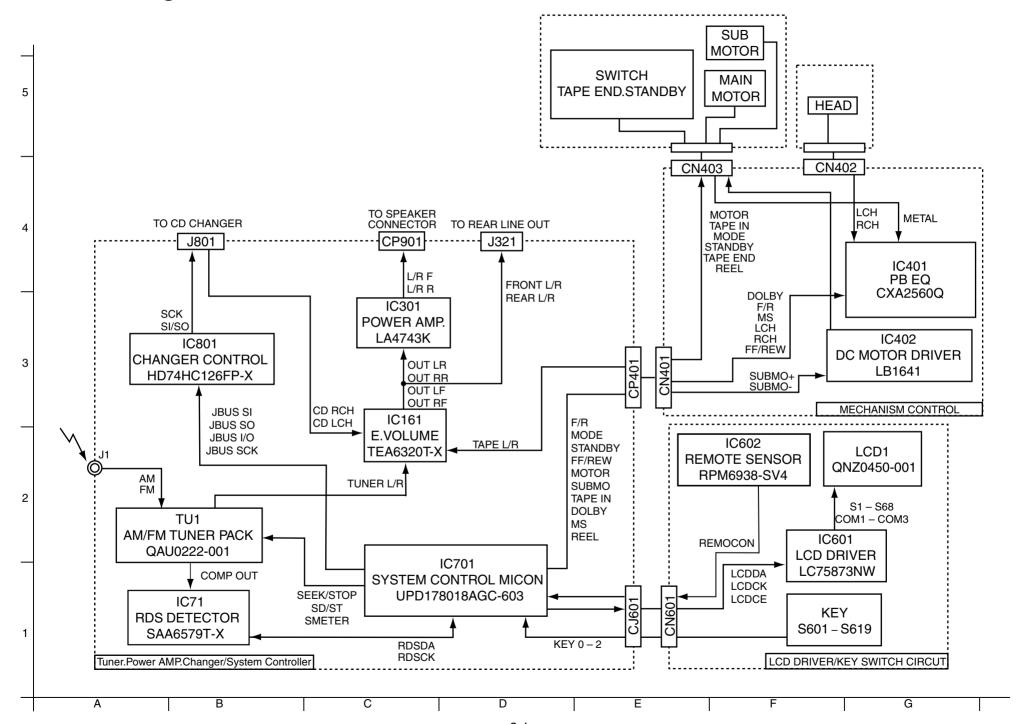


EXTKSRT002-18P

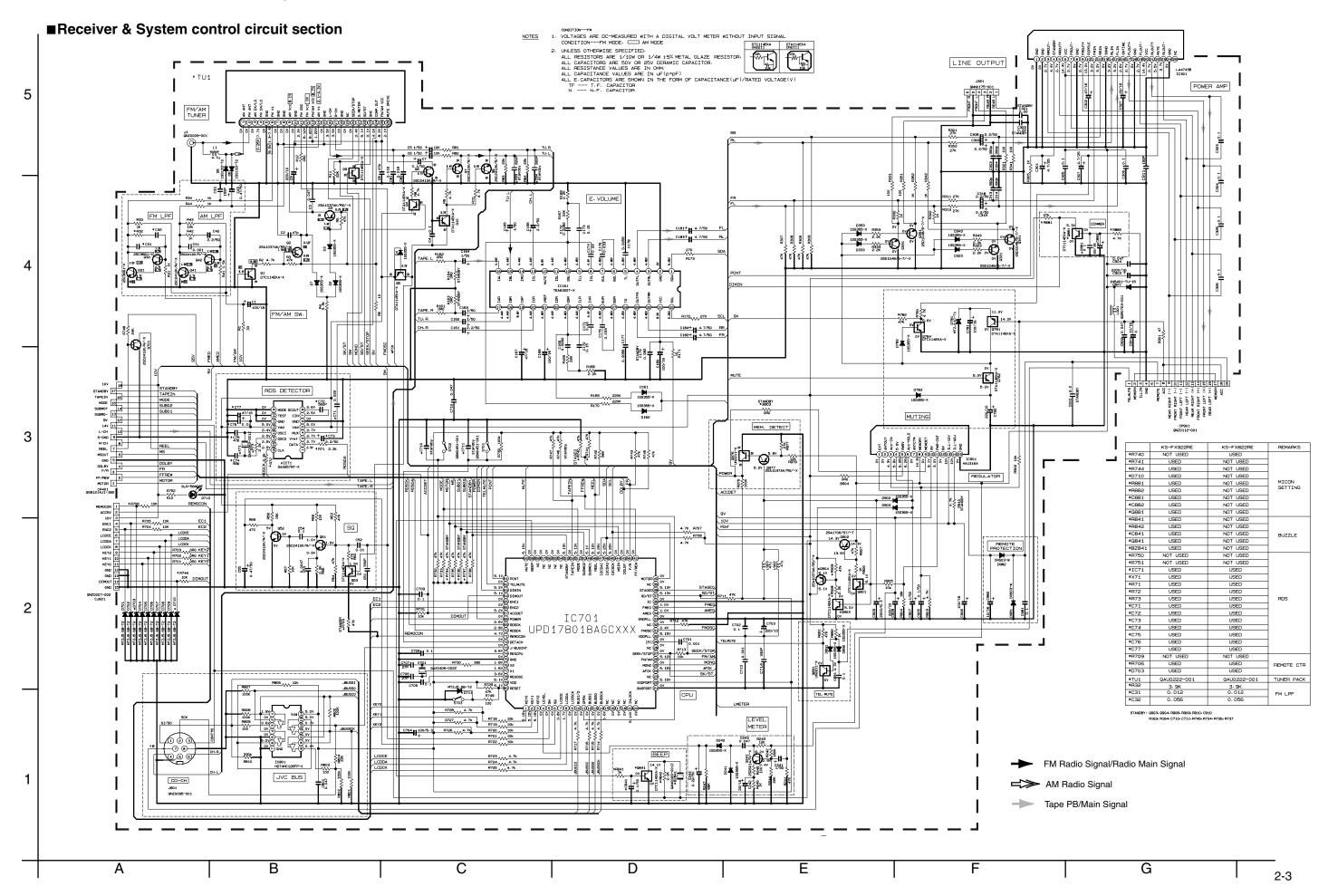
Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
Head     azimuth     adjustment	Test tape: SCC-1659 VT703(10kHz)	<ul> <li>◆ Head height adjustment</li> <li>※ Adjust the azimuth directly. When you adjust the height using a mirror tape, remove the cassette housing from the mechanism chassis. After installing the cassette housing, perform the azimuth adjustment.</li> <li>1. Load the SCC-1659 mirror tape. Adjust with height adjustment screw A and azimuth adjustment screw B so that line A of the mirror tape runs in the center between Lch and Rch in the reverse play mode.</li> </ul>	Head shield	A line is at low position
		<ol> <li>After switching from REV to FWD then to REV, check that the head position set in procedure 1 is not changed. (If the position has shifted, adjust again and check.)</li> <li>Adjust with azimuth adjustment screw B so that line B of the mirror tape runs in the center between Lch and Rch in the forward play mode.</li> </ol>	Head shield	B line is at High position V.
		<ul> <li>◆ Head azimuth adjustment</li> </ul>	Output level:	
		Load VTT724 (VT724) (1kHz) and play it back in the reverse play mode. Set the Rch output level to max.		ad
		<ol> <li>Load VTT703 (VT703) (10kHz) and play it back in the forward play mode. Adjust the Rch and Lch output levels to max, with azimuth adjustment screw B. In this case, the phase difference should be within 45°.</li> </ol>		HEIGHT Adj A
		<ol> <li>Engage the reverse mode and adjust the output level to max, with azimuth adjustment screw C. (The phase difference should be 45° or more.)</li> </ol>	·	phase (45°)
		4. When switching between forward and reverse modes, the difference between channels should be within 3dB. (Between FWD L and R, REV L and R.)		
		<ol> <li>When VTT721 (VT721) (315Hz) is played back, the level difference between channels should be within 1.5dB.</li> </ol>		 
2. Tape speed and wow flutter confirmation	Test tape: VTT712 (3kHz)	<ol> <li>Check to see if the reading of the F, counter / wow flutter meter is within 3015~3045(FWD / REV), and less than 0.35% (JIS RMS).</li> </ol>	Tape speed: 3015 ~3045Hz Wow	Built-in volume resistor
		In case of out of specification, adjust the motor with a built-in volume resistor.		
Play back frequency response confiramation	Test tape: VTT724 (1kHz) VTT739 (63Hz / 1kHz / 10kHz)	<ol> <li>Play test tape VTT724, and set the volume position at 2V.</li> <li>Play test tape VTT739 and confirm.         <ul> <li>1kHz / 10kHz: -1 ± 3dB,</li> <li>1kHz / 63Hz: 0 ± 3dB,</li> </ul> </li> </ol>	1kHz / 63Hz : 0 ± 3db 1kHz / 10kHz : -1 ± 3db	
		When 10kHz is out of specification, it will be necessary to read adjust the azimuth.      of an adjustment-freedesign. In case the tuner is		

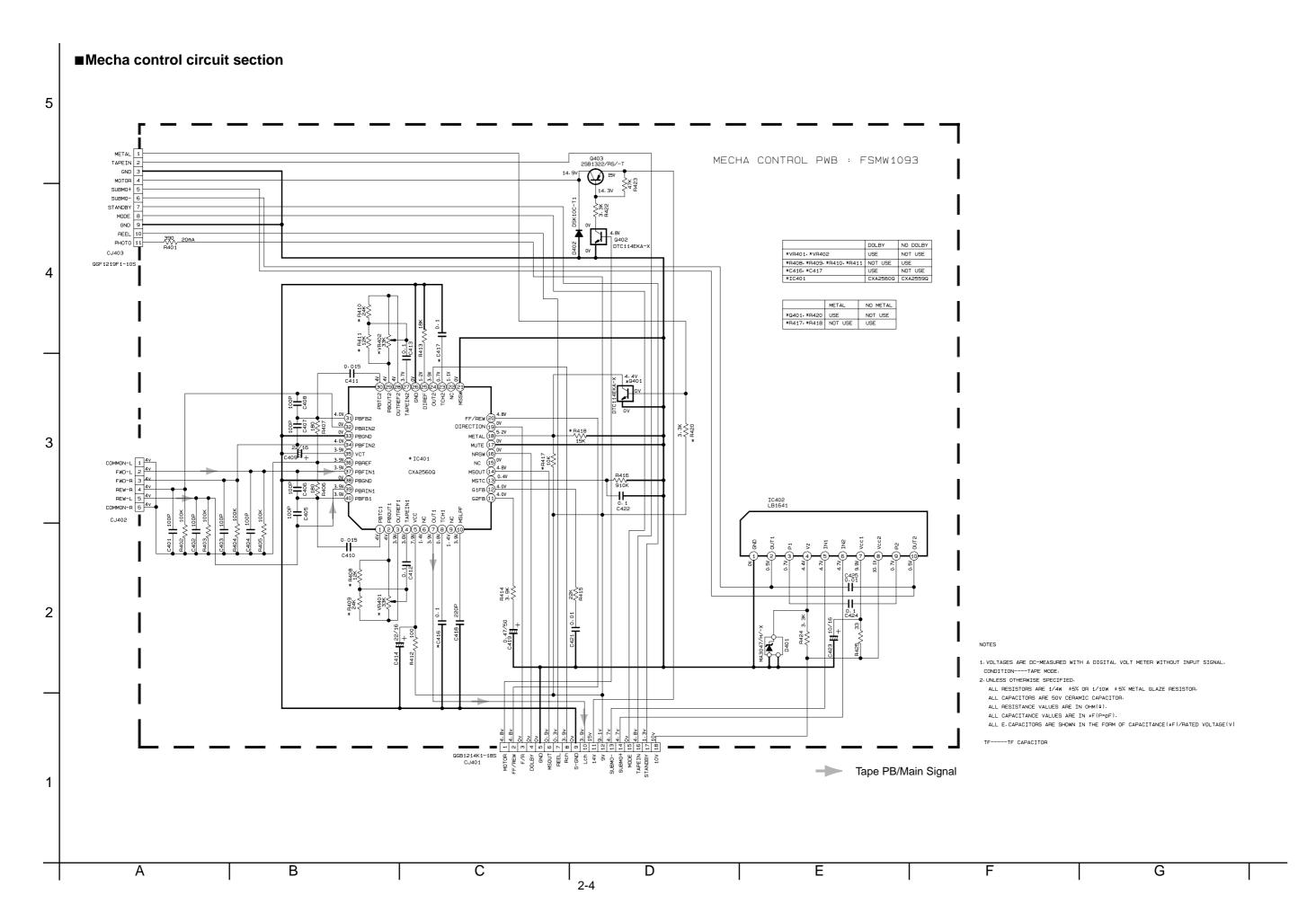
The tuner section is of an adjustment-freedesign. In case the tuner is in trouble, replace the tuner pack.

## **Block Diagram**



## **Standard schematic diagrams**





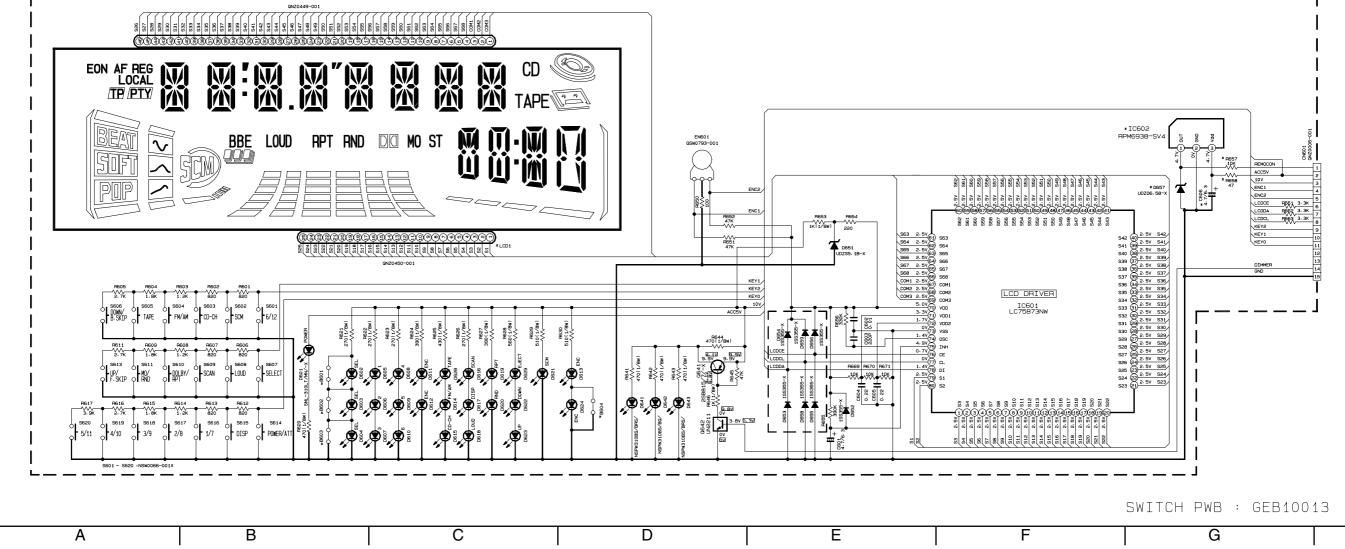
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1

3

2

KS-FX922RE KS-FX822RE \*LCD1 QLD0163-001 QLD0164-001 \*D602.\*D603.\*D604.\*D605.\*D606 \*D607.\*D608.\*D609.\*D610.\*D611 \*D612.\*D613.\*D614.\*D615.\*D616 SML-310VT/JK/-X SML-310VT/JK/-X (RED) (RED) \*D617, \*D618, \*D622, \*D623 \*D628, \*D629 \*D624 NOT USED NOT USED \*D621 LNJ308G81/1-3/X LNJ308G81/1-3/X \*D619,\*D620 SML-310VT/JK/-X SML-310VT/JK/-X \*D641,\*D643 NSPW310BS/BRS/ NSPW310BS/BRS/ \*D642 NSPW310BS/BQ/ NSPW310BS/BQ/ \*R645, \*R646 NOT USED USED \*Q641, \*Q642 NOT USED USED \*R641, \*R642, \*R643 470 \*R644 470 ORO \*IC602 USED USED \*D657 USED USED \*C606 USED USED \*R657, \*R658 USED USED NOT USED \*B601, \*B602, \*B603 NOT USED



# JVC

# SERVICE MANUAL

## CASSETTE RECEIVER

# KS-FX922R

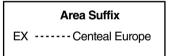












This model is KS-FX922RE EX that is added to the preceding model, the KS-FX922R E. Therefore the service manual for this model is consisting of Parts list only.

For others, please refer to the service manual of KS-FX922R E (issue No.49596).

■ Parts list(Accessories)

P3-17	Block No.M4	4MM
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	Dowle nome	Parts number		
Iten	Parts name	E	EX	Q'ty
A 2	INST.BOOK	GET0017-002A		1
	(LANGUAGE)	(SPA,ITA,SWE,FIN)		

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