

# JVC

# SERVICE MANUAL

## COLOUR TELEVISION

BASIC CHASSIS

JK

# AV-25PS(AU)

This service manual mainly consists of the following items:

- The items which differ from those for the AV-25PS service manual.
- The initial value for each setting item.

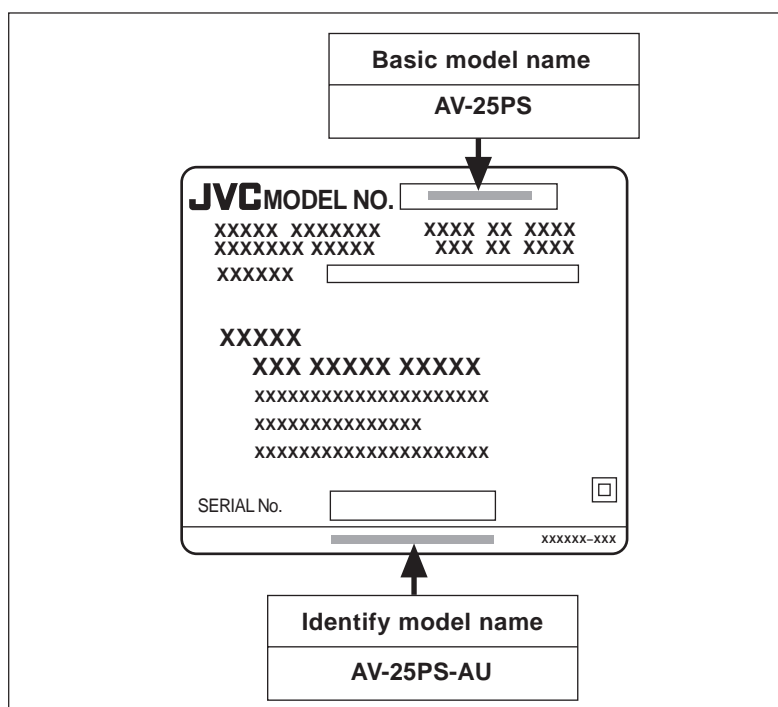
For details other than those described in this manual, please refer to the following service manual.

Reference Service Manual: AV-25PS Service Manual (No. 51750, Jul. 2000)

**Note:** The page in parentheses shows the one for the AV-25PS service manual (No. 51750, Jul. 2000).


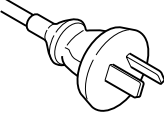
## HOW TO IDENTIFY MODEL

While referring to the illustration given below, identify model name on the rating label affixed to the rear cover.



# PARTS DIFFERENCE TABLE

The different parts between AV-25PS and AV-25PS(AU) are described below:

△	REF. NO.	AV-25PS	AV-25PS(AU)	PART NAME	DESCRIPTION
		PART No.	PART No.		
<b>■ EXPLODED VIEW PARTS LIST (Page 36)</b>					
△	10	QMP40D0-200J3 or QMP40D0-200J5 	<b>QMP2980-185J5</b> 	POWER CORD	
△	14	LC20377-001B-H	<b>LC20377-013B-H</b>	RATING LABEL	
<b>■ PACKING PARTS LIST (Page 47)</b>					
	—	—	<b>BT-56001-2</b>	WARRANTY CARD	
	—	—	<b>BT-56002-2</b>	SERVICE CENTER LIST	

# SPECIFICATIONS (Page 2)

Item		CONTENTS
<b>Dimensions (W × H × D)</b>		655mm × 530.5mm × 465mm
<b>Mass</b>		36kg
<b>TV RF System</b>		B, G, I, D, K, K1, M
<b>Colour System</b>		PAL, SECAM, NTSC3.58, NTSC4.43
<b>Stereo System</b>		A2 / NICAM (B/G, I, D/K)
<b>Teletext System</b>		FLOF (Fastext), WST (World standard system)
<b>Receiving Frequency</b>	<b>VHF (L)</b>	46.25MHz ~ 168.25MHz
	<b>VHF (H)</b>	175.25MHz ~ 463.25MHz
	<b>UHF</b>	471.25MHz ~ 863.25MHz
	<b>CATV</b>	Mid (X-Z, S1-S10), Super (S11-S20), Hyper (S21-S41) bands receivable
<b>Intermediate Frequency</b>		
	<b>VIF Carrier</b>	38.0MHz
	<b>SIF Carrier</b>	33.5MHz(4.5MHz), 32.5MHz(5.5MHz), 32.0MHz(6.0MHz), 31.5MHz(6.5MHz)
<b>Colour Sub Carrier Frequency</b>		
	<b>PAL</b>	4.43MHz
	<b>SECAM</b>	4.40625MHz, 4.25MHz
	<b>NTSC</b>	3.58MHz / 4.43MHz
<b>Power Input</b>		AC110 ~ 240V, 50/60Hz
<b>Power Consumption</b>		181W (Max.), 119W (Avg.)
<b>Picture Tube</b>		Visible size : 60cm measured diagonally
<b>High Voltage</b>		31.0kV ±1.5kV (at zero beam current)
<b>Speaker &amp; Audio Output</b>		Open dome speaker 10W+10W, 10cm round x 2
<b>Video Audio Input terminals</b>		
<b>Video1</b>	<b>S-Video</b>	Y: 1Vp-p Positive (Negative sync provided, when terminated with 75Ω) C: 0.286Vp-p (Burst signal, when terminated with 75Ω)
	<b>Video</b>	1Vp-p 75Ω (RCA pin jack)
	<b>Audio (L/R)</b>	500mVrms (-4dBs), High impedance (RCA pin jack)
<b>Video2</b>	<b>Video</b>	1Vp-p 75Ω (RCA pin jack)
	<b>Audio (L/R)</b>	500mVrms (-4dBs), High impedance (RCA pin jack)
<b>Video3</b>	<b>Video/Y</b>	Composite video 1Vp-p 75Ω (RCA pin jack) Component video 1Vp-p 75Ω (RCA pin jack)
	<b>Cb</b>	Component video B-Y 0.7Vp-p 75Ω (RCA pin jack)
	<b>Cr</b>	Component video R-Y 0.7Vp-p 75Ω (RCA pin jack)
	<b>Audio (L/R)</b>	500mVrms (-4dBs), High impedance (RCA pin jack)
<b>Video4</b>	<b>Video</b>	1Vp-p 75Ω (RCA pin jack)
	<b>Audio (L/R)</b>	500mVrms (-4dBs), High impedance (RCA pin jack)
<b>Video Audio Output terminal</b>		
	<b>Video</b>	1Vp-p 75Ω (RCA pin jack)
	<b>Audio (L/R)</b>	500mVrms (-4dBs), High impedance (RCA pin jack)
<b>Aerial Input Terminal</b>		75Ω Unbalanced, Coaxial
<b>Headphone Jack</b>		Stereo mini jack (3.5ø)
<b>AV Compu Link terminal</b>		AV Compu Link II, mini jack (3.5ø)
<b>Remote Control Unit</b>		RM-C112 (AA/R06 / UM-3 dry battery × 2)

*Design & specifications are subject to change without notice.*

# SPECIFIC SERVICE INSTRUCTIONS

## SETTING OF SYSTEM CONSTANT SET (Page 9)

Table 1

CONTENTS	VARIABLE RANGE	INITIAL SETTING VALUE
COLOUR	<input type="checkbox"/> MULTI <input type="checkbox"/> TRIPLE <input type="checkbox"/> PAL <input type="checkbox"/>	MULTI
MSP	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>	YES
SUPER BASS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>	NO
CENTER SPEAKER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>	NO
TEXT	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>	YES
BLUE BACK MUTE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>	NO
VOLUME LIMIT	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>	YES
COLOUR AUTO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>	NO
TILT	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>	YES
C-TRAP	<input type="checkbox"/> 1 <input type="checkbox"/> 0 <input type="checkbox"/>	1
E.M.C.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>	NO
N/S WHITE BACK	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>	NO
7 LED SPEED	<input type="checkbox"/> 00 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> ... <input type="checkbox"/> 1250 <input type="checkbox"/> 1270 <input type="checkbox"/> 1260 <input type="checkbox"/>	00

## USER SETTING CONDITIONS (Page 9)

Table 2

PICTURE SETTING		FEATURES	
PICTURE MODE	BRIGHT	SLEEP TIMER	OFF
CONTRAST	CENTER	ON TIMER	PR1 0:00
BRIGHT	CENTER	BLUE BACK	ON
SHARP	CENTER	CHILD LOCK	OFF
COLOUR	CENTER	CHANNEL GUARD	--
TINT	CENTER	AUTO SHUT OFF	OFF
WHITE BALANCE	COOL	VIDEO-3 SETTING	COMPONENT
PICTURE FEATURES		INSTALL	
A.A.C	ON	LANGUAGE	ENGLISH
AUTO VNR	AUTO	AUTO PROGRAM	--
COLOUR SYSTEM	TV: According to preset CH VIDEO: AUTO PAL	EDIT / MANUAL	PRESET CH only Others: blank
ZOOM	REGULAR	DEMO	
ECO SENSOR	OFF	DEMO	OFF
PICTURE TILT	CENTER	OTHERS	
SOUND SETTING		VOLUME	Appropriate sound level
SETERO / I • II	<input type="radio"/>	CHANNEL PRESET	Refer to Operating Instructions.
BASS	CENTER	CHANNEL POSITION	1 POSITION
TREBLE	CENTER	SUB POWER	ON
BALANCE	CENTER	ON SCREEN DISPLAY	POSITION INDICATION
AI VOLUME	ON	TV/VIDEO	TV
BBE	ON	SOUND SYSTEM	B/G
SPATIALIZER	OFF		

# SERVICE ADJUSTMENTS

## ■ Initial Setting Value

### ■ SETTING OF VSM PRESET (Page 18)

[INITIAL SETTING VALUES OF VSM PRESET (SUB MENU 5. VSM PRESET)]

ITEM \ PICTURE MODE	BRIGHT	STANDARD	SOFT
1. BRIGHT	+0	+0	+0
2. CONT	+17	+0	-4
3. COLOR	+0	+0	-1
4. SHARP	+0	+0	-3
5. TINT	+0	+0	+0

: Do not adjust.

### ■ SETTING OF WHITE BALANCE PRESET (Page 19)


[SETTING OF WHITE BALANCE PRESET (SUB MENU 6. WB PRESET)]

ITEM \ WHITE BALANCE	COOL	MID	WARM
1. R DRIVE	0	-3	+26
2. B DRIVE	0	-23	-27

: Do not adjust.

## ■ VIDEO / CHROMA CIRCUIT ADJUSTMENT (Page 19)

CONTENTS		PAL	SECAM	NTSC 3.58	NTSC 4.43
1. CUTOFF	R	-60			
	G	-60			
	B	-60			
2. DRIVE	R	+0			
	B	+0			
3. BRIGHT	TV	0	0	0	—
	VIDEO	+1	-4	-2	—
	COMPONENT	-3			
4. CONT	TV	0	0	0	—
	VIDEO	+2	0	+2	—
	COMPONENT	+2			
5. COLOUR	TV / VIDEO	+10	+18	+0	-2
	COMPONENT	+8		+18	
6. TINT	TV	+6	+6	-1	0
	VIDEO	+6	+6	+6	0
	COMPONENT	+6		-3	
7. BLACK OFFSET	R-Y	—	0	—	—
	B-Y	—	0	—	—
8. SHARP	TV	-15	-17	-15	—
	VIDEO	-13	-11	-12	—
	COMPONENT	-15			

 : Do not adjust.

### Adjustment of SUB COLOUR-II (Page 22)

Adjustment part	Description
<b>5. COLOUR</b>	
PAL COLOUR	Value (A) in the figure: Set to <b>0V (W &amp; G)</b> .
SECAM COLOUR	Value (A) in the figure: Set to <b>-5V (W &amp; G)</b> .
NTSC 3.58 COLOUR	Value (A) in the figure: Set to <b>+6V (W &amp; G)</b> .

### Adjustment of SUB TINT-II (Page 23)

Adjustment part	Description
<b>6. TINT</b>	
NTSC 3.58 TINT	Value (B) in the figure: Set to <b>+6V (W &amp; Cy)</b> .

## ■ DEFLECTION CIRCUIT ADJUSTMENT (Page 25)

[DEFLECTION ADJUSTMENTS INITIAL SETTING VALUE (SUB MENU 4. DEF)]

Setting item	Adjustment name	Initial setting value					
		REGULAR		ZOOM		16:9	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	Vertical shift	-3	0	+1	0	-1	0
2. V-SIZE	Vertical size	+13	0	+36	+35	-37	-37
3. SUBTITLE	Subtitle	0	+1	0	+7	0	0
4. H-CENT	Horizontal center	-9	+5	-1	-1	0	0
5. H-SIZE	Horizontal size	+11	-1	-9	-7	-1	0
6. EW-PIN	Side pin correction	-1	-1	-4	-5	+2	+1
7. TRAPEZ	Trapezoidal distortion correction	+4	-1	0	0	-1	+1
8. EW.COR.L	Corner pin correction Low side	-2	0	0	0	+1	+1
9. EW.COR.H	Corner pin correction High side	-2	0	0	0	+1	+1
10. V.S-COR	Vertical size correction	+9	0	0	0	0	0
11. V-LIN	Vertical Linearity	0	0	+1	0	0	0
12. H-BLK-R	Horizontal Blanking Right	0	0	0	0	+29	0
13. H-BLK-L	Horizontal Blanking Left	0	0	0	0	0	0
14. V-EHT	V size correction level caused by EHT change	-4	0	0	0	0	0
15. H-EHT	H size correction level caused by EHT change	-4	0	0	0	0	0
16. EHT-GAIN	Size correction gain caused by EHT change	0	0	0	0	0	0

: Do not adjust.

## ■ AUDIO CIRCUIT ADJUSTMENT (Page 29)

[AUDIO ADJUSTMENTS INITIAL SETTING VALUE (SUB MENU 3. AUDIO)]

Setting item	Variable range	Fixed value
1. ERROR LIMIT	000H ~ FF0H	100H
2. A2 ID THR	00H ~ FFH	14H
3. BASS	-17 ~ +17	+0
4. TREBLE	-17 ~ +17	+0

: Do not adjust.



**JVC**

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AV25PSAU-H #3



CTH 0009  
CRT