

# JVC

## SERVICE MANUAL

### DVD VIDEO PLAYER

# XV-521BK/XV-523GD XV-525BK/XV-421BK

## Supplement

Area Suffix (XV-521BK/XV-523GD)	
J	U.S.A.
C	Canada

Area Suffix (XV-525BK/XV-421BK)	
J	U.S.A.

As for this model, a part of specification is changed because of the performance improvement of the model which has already been put on the market.

Therefore, this service manual is composed only of the change point.

1. Standard schematic diagrams (only System control circuit)
2. Printed circuit board (only Main board)
3. Parts list (only Main board)

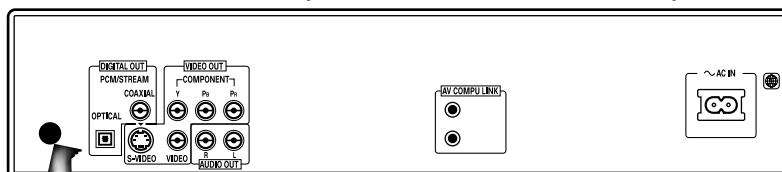
Please refer to this service manual for the model to which the performance is improved.

Moreover, to distinguish whether it is a model to which the performance is improved, the sticker is pasted to the rear panel.

Please already refer to the issued service manual (Issue No.20836 XV-521BK/XV-523GD/XV-525BK/XV-421BK) for other items.

When a green sticker had been pasted to rear panel, it is a model to which the performance is improved.

REAR PANEL (This illustration is XV-521BK)



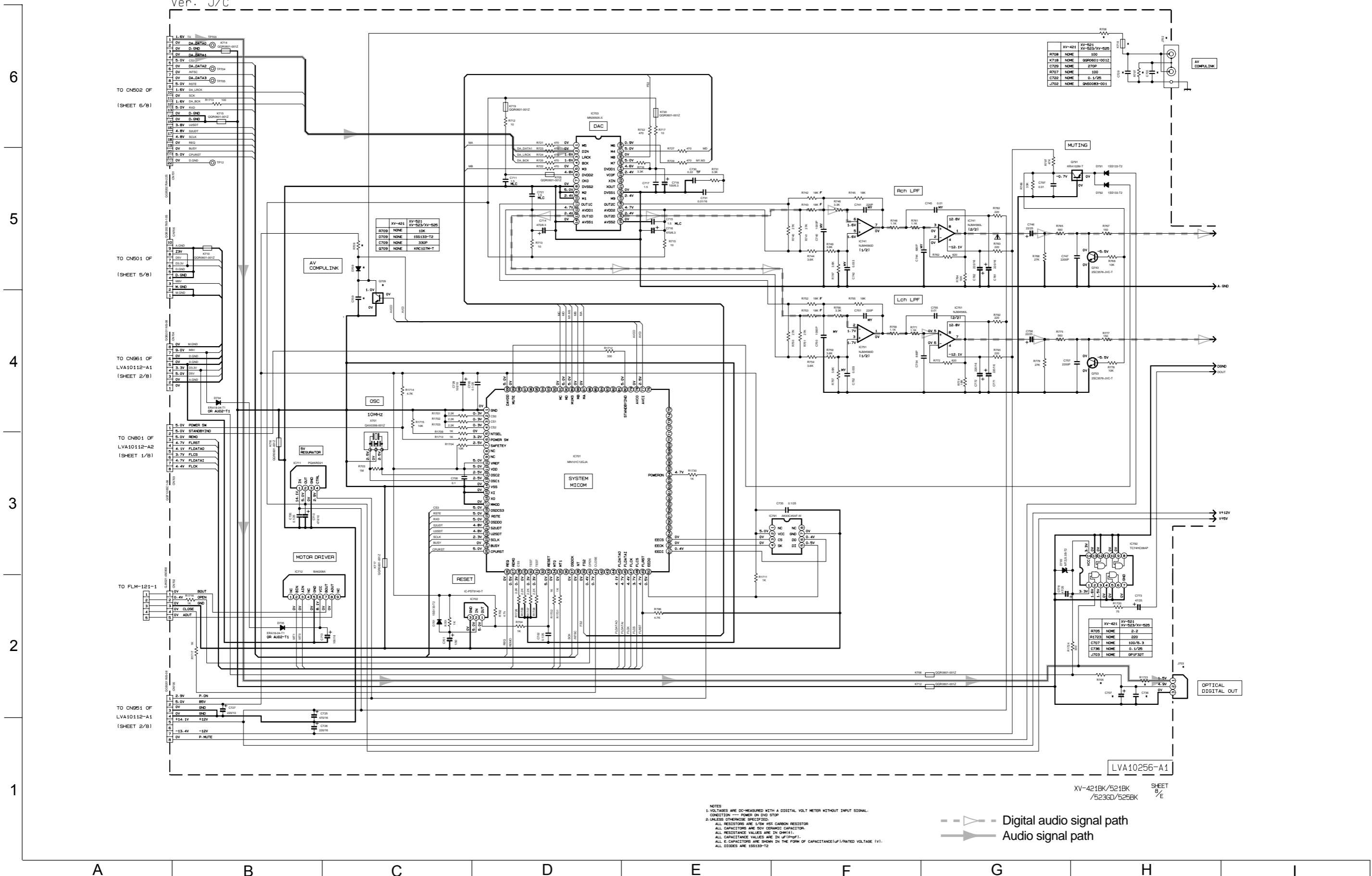
Sticker  
(Green)

XV-521BK/XV-523GD  
XV-525BK/XV-421BK

# Standard schematic diagram

## System control circuit

Ver. J/C



R708	NONE	100
L718	NONE	02R001-0012
C709	NONE	270P
R707	NONE	100
C706	NONE	0.1/25
C705	NONE	02R003-001

XV-521	XV-521	XV-523/XV-525
R709	NONE	10K
D709	NONE	1S8133-T2
C709	NONE	330P
D709	NONE	K9C1078-1

XV-521	XV-523/XV-525
R705	NONE
R123	NONE
C707	NONE
C706	NONE
C705	NONE

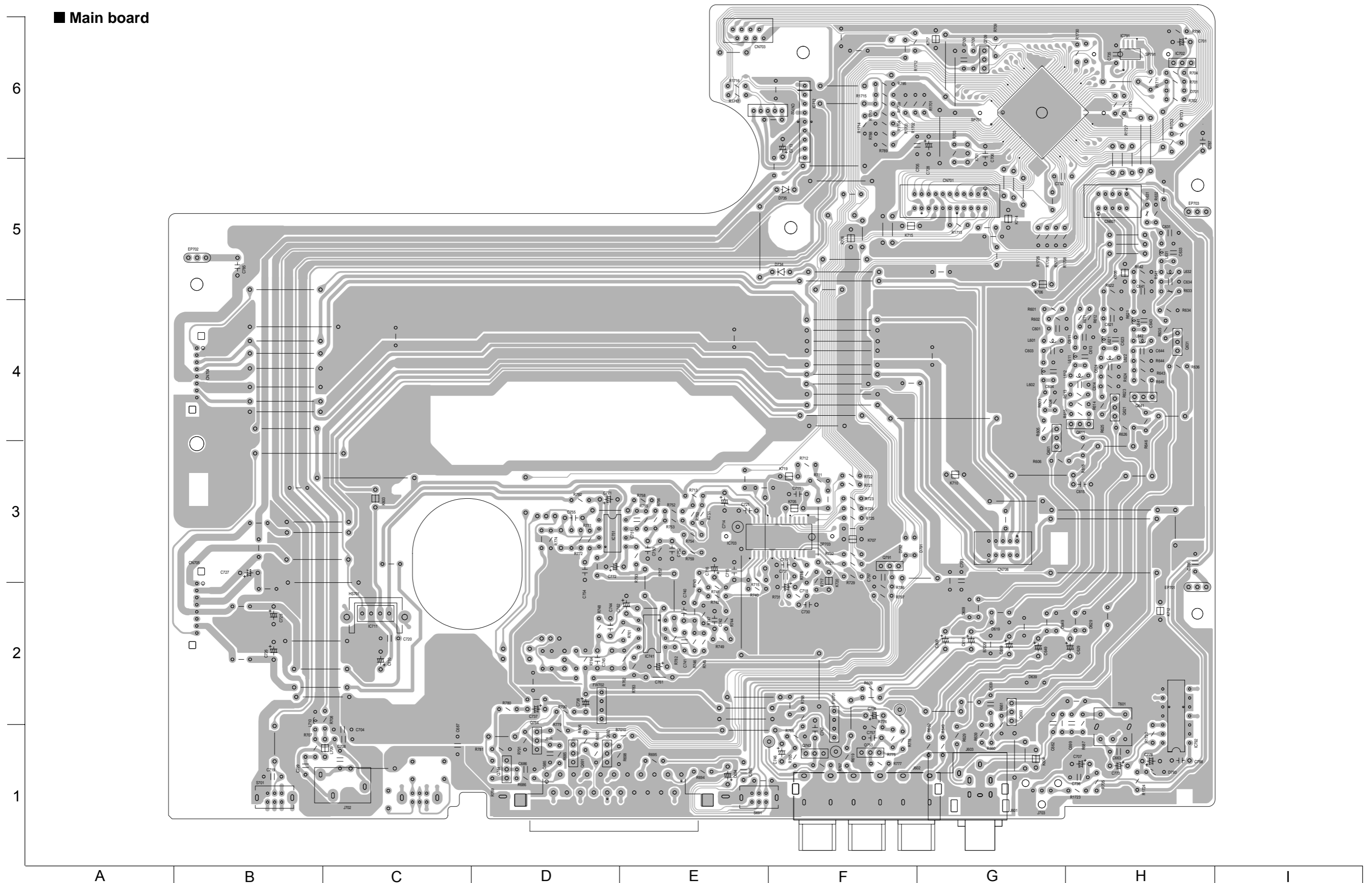
LVA10256-A1  
XV-421BK/521BK /523GD/525BK SHEET 9/9

NOTES  
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.  
CONDITION --- POWER ON DVD STOP  
2. UNLESS OTHERWISE SPECIFIED.  
ALL RESISTORS ARE 1/16W 5% CARBON RESISTOR  
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR  
ALL RESISTANCE VALUES ARE IN OHM(S).  
ALL CAPACITANCE VALUES ARE IN PICO(F).  
ALL C-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE/(RATED VOLTAGE (V)).  
ALL DIODES ARE 1S8133-T2

--- Digital audio signal path  
--- Audio signal path

# Printed circuit board

■ Main board



■ Electrical parts list (Main board) Block No. 02

△	Item	Parts number	Parts name	Remarks	Area	△	Item	Parts number	Parts name	Remarks	Area
	C 601	QCBB1HK-181Y	C CAPACITOR	180PF 10% 50V			C 771	QETN1CM-227Z	E CAPACITOR	220MF 20% 16V	
	C 603	QCS11HJ-680	C CAPACITOR	68PF 5% 50V			C 772	QETN1CM-227Z	E CAPACITOR	220MF 20% 16V	
	C 604	QCS11HJ-150	C CAPACITOR	15PF 5% 50V			C 773	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 609	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V			C 778	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 611	QCBB1HK-181Y	C CAPACITOR	180PF 10% 50V			C 797	QDYB1CM-103Y	C.CAPACITOR		
	C 613	QCS11HJ-680	C CAPACITOR	68PF 5% 50V			CN601	QGB2027M3-10S	CONNECTOR	TO CN503	
	C 614	QCS11HJ-150	C CAPACITOR	15PF 5% 50V			CN701	QGB2027M4-22S	CONNECTOR	TO CN502(MDUL)	
	C 619	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V			CN702	QJK021-050800	SIN CR C-B WIRE	TO	
	C 621	QCBB1HK-121Y	C CAPACITOR	120PF 10% 50V			CN703	QGF1205C1-08	CONNECTOR	TO CN801(FL)	
	C 623	QCS11HJ-470	C CAPACITOR	47PF 5% 50V			CN704	QGB2011M3-08	B TO B CONNECTO	TO CN961(POWER)	
	C 624	QCS11HJ-100	C CAPACITOR	10PF 5% 50V			CN705	QGB2011M3-08	B TO B CONNECTO	TO CN951(POWER)	
	C 629	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V			CN706	QGB2027M3-10S	CONNECTOR	TO CN501(MODUL)	
	C 631	QCBB1HK-121Y	C CAPACITOR	120PF 10% 50V			D 609	1SS133-T2	SI DIODE		
	C 633	QCS11HJ-470	C CAPACITOR	47PF 5% 50V			D 619	1SS133-T2	SI DIODE		
	C 634	QCS11HJ-100	C CAPACITOR	10PF 5% 50V			D 629	1SS133-T2	SI DIODE		
	C 639	QCFB1HZ-104Y	C CAPACITOR	.10MF +80:-20%			D 639	1SS133-T2	SI DIODE		
	C 641	QCBB1HK-121Y	C CAPACITOR	120PF 10% 50V			D 649	1SS133-T2	SI DIODE		
	C 643	QCS11HJ-470	C CAPACITOR	47PF 5% 50V			D 701	1SS133-T2	SI DIODE		
	C 644	QCS11HJ-100	C CAPACITOR	10PF 5% 50V			D 734	AU02-T1	FR DIODE I/M		
	C 649	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V			D 735	AU02-T1	FR DIODE I/M		
	C 659	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V			D 791	1SS133-T2	SI DIODE		
	C 663	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V			D 792	1SS133-T2	SI DIODE		
	C 699	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V			D 709	1SS133-T2	SI DIODE		XV-521BK
	C 701	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V			D 793	MTZJ3.3B-T2	ZENER DIODE IM		
	C 702	QCFB1HZ-104Y	C CAPACITOR	.10MF +80:-20%			FW701	QUM124-10Z4Z4	PARA RIBON WIRE	FW701 TO FW702	
	C 705	QCFB1HZ-104Y	C CAPACITOR	.10MF +80:-20%			IC701	MN101C12GJA	IC	SYSTEM MICOM	
	C 706	QFVC1HJ-104Z	M.M.CAPACITOR	.10MF 5% 50V			IC702	IC-PST9140-T	IC		
	C 707	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	XV-521BK		IC703	MN35505-X	IC C M		
	C 710	QETN1AM-477Z	E CAPACITOR	470MF 20% 10V			IC711	PQ05RD21	IC		
	C 709	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	XV-521BK		IC712	BA6208A	IC		
	C 711	QCZ0205-155Z	ML C CAPACITOR	1.5MF			IC741	NJM4580D	IC		
	C 713	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V			IC751	NJM4580D	IC		
	C 714	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V			IC791	AK93C45AF-W	IC		
	C 715	QCZ0205-155Z	ML C CAPACITOR	1.5MF			IC792	TC74HC08AP	IC		
	C 716	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V			J 601	QNN0333-001	PIN JACK		
	C 717	QCZ0205-155Z	ML C CAPACITOR	1.5MF			K 603	QQR0601-001Z	FERRITE BEADS		
	C 718	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V			K 604	QQR0601-001Z	FERRITE BEADS		
	C 720	QCFB1HZ-104Y	C CAPACITOR	.10MF +80:-20%			K 605	QQR0601-001Z	FERRITE BEADS		
	C 721	QCZ0205-155Z	ML C CAPACITOR	1.5MF			K 705	QQR0601-001Z	FERRITE BEADS		
	C 725	QETN1CM-477Z	E CAPACITOR	470MF 20% 16V			K 706	QQR0601-001Z	FERRITE BEADS		
	C 726	QETN1CM-227Z	E CAPACITOR	220MF 20% 16V			J 702	QNS0083-001	3.5 JACK	AV COMPULINK	XV-521BK
	C 727	QETN1AM-227Z	E CAPACITOR	220MF 20% 10V			K 710	QQR0601-001Z	FERRITE BEADS		
	C 728	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V			J 703	GP1FA550TZ	OPT TRANSMITTER	OPT DIGITAL OUT	XV-521BK
	C 730	QFVC1HJ-224Z	MF CAPACITOR	.22MF 5% 50V			K 712	QQR0601-001Z	FERRITE BEADS		
	C 731	QDYB1CM-103Y	C.CAPACITOR				K 714	QQR0601-001Z	FERRITE BEADS		
	C 729	QCBB1HK-271Y	C CAPACITOR	270PF 10% 50V	XV-521BK		K 715	QQR0601-001Z	FERRITE BEADS		
	C 735	QCFB1HZ-104Y	C CAPACITOR	.10MF +80:-20%			K 716	QQR0601-001Z	FERRITE BEADS		
	C 740	QFN32AJ-102Z	M.CAPA I/M	1000PF 5% 100V			K 717	QQR0601-001Z	FERRITE BEADS		
	C 741	QFN31HJ-221Z	M.CAPA. I/M	220PF 5% 50V			K 719	QQR0601-001Z	FERRITE BEADS		
	C 742	QFN32AJ-333Z	M.CAPA I/M	.033MF 5% 100V			K 720	QQR0601-001Z	FERRITE BEADS		
	C 736	QCFB1HZ-104Y	C CAPACITOR	.10MF +80:-20%	XV-521BK		L 601	QQL071J-120Y	INDUCTOR		
	C 744	QFLC1HJ-681Z	M.CAPA. I/M	680PF 5% 50V			L 602	QQL071J-5R6Y	INDUCTOR		
	C 745	QFN32AJ-103Z	M.CAPA.I/M	.010MF 5% 100V			L 611	QQL071J-120Y	INDUCTOR		
	C 746	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V			L 612	QQL071J-5R6Y	INDUCTOR		
	C 747	QFLC1HJ-222Z	M CAPACITOR	2200PF 5% 50V			L 621	QQL071J-120Y	INDUCTOR		
	C 750	QFN32AJ-102Z	M.CAPA I/M	1000PF 5% 100V			K 718	QQR0601-001Z	FERRITE BEADS		XV-521BK
	C 751	QFN31HJ-221Z	M.CAPA. I/M	220PF 5% 50V			L 622	QQL071J-5R6Y	INDUCTOR		
	C 752	QFN32AJ-333Z	M.CAPA I/M	.033MF 5% 100V			L 631	QQL071J-120Y	INDUCTOR		
	C 754	QFLC1HJ-681Z	M.CAPA. I/M	680PF 5% 50V			L 632	QQL071J-5R6Y	INDUCTOR		
	C 755	QFN32AJ-103Z	M.CAPA.I/M	.010MF 5% 100V			L 641	QQL071J-120Y	INDUCTOR		
	C 756	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V			L 642	QQL071J-5R6Y	INDUCTOR		
	C 757	QFLC1HJ-222Z	M CAPACITOR	2200PF 5% 50V			Q 601	2SA1175/FE/-T	TRANSISTOR		
	C 761	QETN1CM-227Z	E CAPACITOR	220MF 20% 16V			Q 611	2SA1175/FE/-T	TRANSISTOR		
	C 762	QETN1CM-227Z	E CAPACITOR	220MF 20% 16V			Q 621	2SA1175/FE/-T	TRANSISTOR		

Area XV-521BK=ONLY XV-521BK/XV-525BK/XV-523GD  
XV-421BK=ONLY XV-421BK

■ Electrical parts list (Main board)

Block No. 02

△	Item	Parts number	Parts name	Remarks	Area
	Q 631	2SA1175/FE/-T	TRANSISTOR		
	Q 641	2SA1175/FE/-T	TRANSISTOR		
	Q 743	2SC3576-JVC-T	TRANSISTOR I/M	AMUTE1	
	Q 753	2SC3576-JVC-T	TRANSISTOR I/M	AMUTE1	
	Q 791	KRA102M-T	D.TRANSISTOR		
	R 601	QRE141J-120Y	C RESISTOR	12 5% 1/4W	
	R 602	QRE141J-361Y	C RESISTOR	360 5% 1/4W	
	R 603	QRE141J-120Y	C RESISTOR	12 5% 1/4W	
	R 604	QRE141J-361Y	C RESISTOR	360 5% 1/4W	
	R 605	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	Q 709	KRC107M-T	D.TR.I.M		XV-521BK
	R 606	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 609	QRE141J-680Y	C RESISTOR	68 5% 1/4W	
	R 611	QRE141J-120Y	C RESISTOR	12 5% 1/4W	
	R 612	QRE141J-361Y	C RESISTOR	360 5% 1/4W	
	R 613	QRE141J-120Y	C RESISTOR	12 5% 1/4W	
	R 614	QRE141J-361Y	C RESISTOR	360 5% 1/4W	
	R 615	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 616	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 619	QRE141J-680Y	C RESISTOR	68 5% 1/4W	
	R 621	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R 622	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R 623	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R 624	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R 625	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 626	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 629	QRE141J-680Y	C RESISTOR	68 5% 1/4W	
	R 632	QRE141J-361Y	C RESISTOR	360 5% 1/4W	
	R 634	QRE141J-361Y	C RESISTOR	360 5% 1/4W	
	R 635	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 636	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 639	QRE141J-680Y	C RESISTOR	68 5% 1/4W	
	R 641	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R 642	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R 643	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R 644	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R 645	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 646	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 649	QRE141J-680Y	C RESISTOR	68 5% 1/4W	
	R 659	QRE141J-680Y	C RESISTOR	68 5% 1/4W	
	R 687	QRE141J-270Y	C RESISTOR	27 5% 1/4W	
	R 701	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 702	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 703	QRE141J-105Y	C RESISTOR	1.0M 5% 1/4W	
	R 704	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 712	QRE141J-100Y	C RESISTOR	10 5% 1/4W	
	R 713	QRE141J-100Y	C RESISTOR	10 5% 1/4W	
	R 715	QRE141J-100Y	C RESISTOR	10 5% 1/4W	
	R 716	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 717	QRE141J-100Y	C RESISTOR	10 5% 1/4W	
	R 721	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 722	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 723	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 724	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 705	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	XV-521BK
	R 725	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 707	QRE141J-101Y	C RESISTOR	100 5% 1/4W	XV-521BK
	R 727	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 708	QRE141J-101Y	C RESISTOR	100 5% 1/4W	XV-521BK
	R 729	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 731	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 709	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	XV-521BK
	R 732	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 740	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	

△	Item	Parts number	Parts name	Remarks	Area
	R 741	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 742	QRA14CF-1802Y	M.F.RESISTOR	18 1/4W	
	R 743	QRA14CF-1802Y	M.F.RESISTOR	18 1/4W	
	R 744	QRE141J-362Y	C RESISTOR	3.6K 5% 1/4W	
	R 745	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 746	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 747	QRE141J-362Y	C RESISTOR	3.6K 5% 1/4W	
	R 748	QRE141J-112Y	C RESISTOR	1.1K 5% 1/4W	
	R 749	QRE141J-362Y	C RESISTOR	3.6K 5% 1/4W	
	R 750	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 751	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 752	QRA14CF-1802Y	M.F.RESISTOR	18 1/4W	
	R 753	QRA14CF-1802Y	M.F.RESISTOR	18 1/4W	
	R 754	QRE141J-362Y	C RESISTOR	3.6K 5% 1/4W	
	R 755	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 756	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 757	QRE141J-362Y	C RESISTOR	3.6K 5% 1/4W	
	R 758	QRE141J-112Y	C RESISTOR	1.1K 5% 1/4W	
	R 759	QRE141J-362Y	C RESISTOR	3.6K 5% 1/4W	
	R 761	QRE141J-112Y	C RESISTOR	1.1K 5% 1/4W	
	R 762	QRE141J-821Y	C RESISTOR	820 5% 1/4W	
	R 764	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 765	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 766	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 767	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R 768	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 771	QRE141J-112Y	C RESISTOR	1.1K 5% 1/4W	
	R 772	QRE141J-821Y	C RESISTOR	820 5% 1/4W	
	R 774	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 775	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 776	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 777	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R 778	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 782	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 783	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 786	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R 792	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 793	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 796	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 797	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R1701	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1702	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1703	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1704	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1706	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1707	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1708	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1709	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1710	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1711	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1712	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R1713	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R1714	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1715	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1716	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1717	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1720	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R1724	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R1726	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1730	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1731	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1732	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	SP701	VYH7653-001	IC HOLDER	FOR IC701	
	SP703	VYH7653-003SC	IC HOLDER	FOR IC703	
	T 601	QQR0880-001	PULSE TRANS		
	X 701	QAX0356-001Z	RESONATOR		
	R1723	QRE141J-221Y	C RESISTOR	220 5% 1/4W	XV-521BK

Area XV-521BK=ONLY XV-521BK/XV-525BK/XV-523GD  
XV-421BK=ONLY XV-421BK

■ Accessories list (additional parts) P3-21

Block No.M5MM

△	Item	Parts name	Parts number		Q'ty
			Each J version	Each J version	
	A12	INST SHEET	-----	LV42202-001A	1

**About XV-521BK ver.J and XV-523GD ver.C**

The same model of the content exists and refer to it, please though neither XV-521BK VER.J nor XV-523GD VER.C have already been described to the issued service manual.

**XV-521BK ver.J same as XV-521BK ver.C**

**XV-523GD ver.C same as XV-523GD ver.J**

**XV-521BK/XV-523GD**  
**XV-525BK/XV-421BK**

**JVC**

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