

**BOM of MV-217 X'tal**

2020/06/27

Electronic parts

tax incl' (8% till 2019/09/30, 10% from 2019/10/01)

列1	列2	列3	列4	列5	列6	列7	列8	列9	列10	列11	列12	列13	列14
Category	Part name	Model number	Manufacturer	Spec	Used Qty	Purchase Qty	@Price	Price	Cost	Retailer	Purchase Date	Referece Designator	Note
Semiconductor	Dual op amp	NJM5532D	JRC	Op amp for audio	2	0	¥120	¥0	¥240			U1-2	Bought for HA-213 (headphone amp)
	Regulator IC	78L15		DC+15V, 100mA	1	0	¥40	¥0	¥40	Marutsu		U3	
	Regulator IC	79L15		DC-15V, 100mA	1	0		¥0	¥0	Marutsu		U4	
	Regulator IC	7812		DC+12V, 1A	1	0		¥0	¥0	Marutsu		U5	
	LED	L5-G2530-20000	Linkman	Ultra-bright green	2	0	¥40	¥0	¥80	Marutsu	2012/07/26	LED1-2	Bought for PE-114
Passive	1/4W 100			1/4P, 100, 1%, metal film	4	0	¥10	¥0	¥40			R1,4,7,10	From stock
	1/4W 20k			1/4P, 20k, 1%, metal film	4	0	¥10	¥0	¥40			R2,5,8,11	From stock
	1/4W 1k			1/4P, 1k, 1%, metal film	4	0	¥10	¥0	¥40			R3,6,9,12	From stock
	1/4W, 3.3	one yen resistor	Akizuki	1/4P, 3.3, 5%, carbon film	1	0	¥1	¥0	¥1	Akizuki		R13	From stock, 10//10//10ohm
	1/4W, 3.9k	one yen resistor	Akizuki	1/4P, 3.9k, 5%, carbon film	2	0	¥1	¥0	¥2	Akizuki		R14-15	From stock
	100V, 220p			Ceramic, 100V, 220p, lead	4	4		¥0	¥0			C1-4	
	100V, 100n			Ceramic, 100V, 100n, lead	5	0		¥0	¥0			C5-9	
SW, Conn	Post	B2B-XH-A	JST	2P, 2.5mm pitch post	4	10	¥25	¥253	¥101	Marutsu	2019/12/07	PL1-4	
	Socket			SIP, 1pos	8	0	¥44	¥0	¥352			PL5-6, W14-15	From stock
	Housing	XHP-2	JST	2P, 2.5mm pitch housing	4	10	¥24	¥242	¥97	Marutsu	2019/12/07	W10-15	
	Housing	XHP-3	JST	3P, 2.5mm pitch housing	2	4	¥29	¥114	¥57	Marutsu	2019/12/07	W3-4	
	Housing			3P, 2.54mm pitch housing	1	0		¥0	¥0			W7	Accessory of EVR-3-301
	Housing			3P, 2.54mm pitch housing	1	0		¥0	¥0			W8	Accessory of EVR-DISP1
	Housing	XHP-4	JST	4P, 2.5mm pitch housing	2	4	¥33	¥132	¥66	Marutsu	2019/12/07	W5-6	
	Contact	SXH-001T-P0.6	JST	Solderless, AWG28-22	20	25	¥9	¥235	¥188	Marutsu	2019/12/07	W3-6,10-15	
	Contact			Solderless	3	0	¥0	¥0	¥0			W7	Accessory of EVR-3-301
	Contact			Solderless	3	0	¥0	¥0	¥0			W8	Accessory of EVR-DISP1
	RCA jack	RJ-2000B-T/W	Linkman	RCA jack, white	3	4	¥286	¥1,144	¥858	Marutsu	2019/12/07	CN2,4,6	
	RCA jack	RJ-2000B-T/R	Linkman	RCA jack, red	3	4	¥286	¥1,144	¥858	Marutsu	2019/12/07	CN3,5,7	
	Soldering tab			Egg-shaped, M3	2	0	¥2	¥0	¥4			W1-2	From stock
Module	Electronic volume	EVR-3-01	AEDIO	2-ch electronic volume	1	1	¥21,600	¥21,600	¥21,600	Kaijin Musen	2015/03/03	VR1	
	Display unit	EVR-DISP1	AEDIO	Display unit for EVR-3-01	1	1	¥17,780	¥17,280	¥17,780	Kaijin Musen	2015/03/03	VR2	
	IR remote control	LV-REMOCON	Marutsu Elec	Infra-red remote control	1	1	¥0	¥0	¥0	Kaijin Musen	2015/03/03	RC1	
	AC/DC CONVERTER	EML15US24-T	XP Power	AC/DC CONVERTER 24V 15W	2	2	¥3,601	¥7,202	¥7,202	Digi-Key	2019/09/16	PS1-2	
	Inlet module	811-7226	RS Pro	IEC socket, fuse holder, sw	1	1	¥499	¥499	¥499	Marutsu	2019/12/07	CN1	
Wire	AC power code	KB-D3215A	Sanwa Supply	IEC C13, 3P, 125V 15A, 2m	1	1	¥1,628	¥1,628	¥1,628	Marutsu	2019/12/20	W18	
	Coaxial cable	2520 (W)	Mogami	OFC, shielded, white	0.5	0	¥410	¥0	¥205	Oyaide	2014/09/09	W14,16	Bought for MA-215
	Coaxial cable	2520 (R)	Mogami	OFC, shielded, red	0.5	0	¥410	¥0	¥205	Oyaide	2014/09/10	W15,17	Bought for MA-215
	Single wire	UL1007AWG22 (W)	Oyaide	AWG22, white	0.8	0	¥151	¥0	¥121	Oyaide	2014/09/09	W3-4	Substituted by 0.3VSF
	Single wire	UL1007AWG22 (Bk)	Oyaide	AWG22, black	1.2	0	¥151	¥0	¥181	Oyaide	2014/09/09	W3-4	Substituted by 0.3VSF
	Single wire	FEP (G)	Kyowa Wiring	0.75sq, green	0.2	0	¥40	¥0	¥8			W1-2	From stock
	Single wire			0.5sq, white	0.1	0	¥20	¥0	¥2			W19	From stock
	Single wire			0.5sq, black	0.1	0	¥20	¥0	¥2			W19	From stock
	Single wire	HW-22 (W)	Oyaide	PC-OCC, AWG22, white	0.3	0	¥151	¥0	¥45	Oyaide	2014/09/09	W10-13	Bought for MA-215
	Single wire	HW-22 (Bk)	Oyaide	PC-OCC, AWG22, black	0.3	0	¥151	¥0	¥45	Oyaide	2014/09/09	W10-13	Bought for MA-215
	Single wire	UL1007AWG20-2X10	Sanko	AWG20, Red	0.4	1	¥48	¥48	¥19	Marutsu	2019/12/20	W7-8	
	Single wire	UL1007AWG20-2X10	Sanko	AWG20, Blue	0.2	0	¥48	¥0	¥10	Marutsu	2019/12/20	W7-8	
	Single wire	UL1007AWG20-2X10	Sanko	AWG20, Black	0.4	0	¥48	¥0	¥19	Marutsu	2019/12/20	W7-8	
	Single wire	GW-T-0.70F	Amtrans	OFC, 0.7mm, gold-plated	0.3	0	¥627	¥0	¥188	Marutsu	2015/06/21	BD1	Bought for MA-215
Board	Universal board	ICB-500F	Sunhayato	2.54mm pitch, 245 x 195mm	0.1	0	¥1,963	¥0	¥196	Marutsu	2012/09/22	BD1	From stock
Other	Insulation tube			1mm x 300mm	0.1	0	¥10	¥0	¥1				From stock
	Shrink tube	HSTC2		2mm x 1000mm	0.6	0	¥105	¥0	¥63	Marutsu	2010/08/13	W14-15	From stock
	Cable tie	Insulok AB100-W-100	HellermanTayton	2.5mm x 100mm	12	100	¥1	¥140	¥17				From stock
	Cable tie	Insulok IT18R	HellermanTayton	2.5mm x 100mm w/tag	2	100	¥10	¥1,040	¥21	Moriden @Rakuten	2015/09/28		From stock
Electronic parts total									¥52,702	¥53,122			

Mechanical parts

Category	Part name	Model number	Manufacturer	Spec	Used Qty	Purchase Qty	@Price	Price	Cost	Vendor	Purchase date	Ref Des	Note
列1	列2	列3	列4	列5	列6	列7	列8	列9	列10	列11	列12	列13	列14
Metal	Aluminum panel	B(CS)	Eggs	1x600x400	1.2	0	¥2,480	¥0	¥2,976	Joyful Honda	2014/02/07	PN1-2,4,8	Bought for MA-215
	Aluminum panel	MA-S6	Takachi	1x300x200, hair-lined	1	0	¥350	¥0	¥350	Sugihara Denshi	2006/01/14	PN3,6	From stock
	Aluminum L-shape angle	-	-	3t 50x50x300	0.1	1	¥859	¥859	¥86	Joyful Honda	2019/12/07	AG1-4	
	Aluminum square bar	-	-	8x8x1000	0.7	0	¥790	¥0	¥553	Joyful Honda	2014/02/07	SB1-6	Bought for MA-215
Wood	Plywood board			12x300x150, wood grain	0.6	1	¥110	¥110	¥66	Joyful Honda	2019/12/05	PN5	
	Round bar			Phi30 L25, ebony	1	0	¥189	¥0	¥189	DOIT	2001	RB1	From stock
Plastic	Bakelite round bar			Phi6 L430	0.1	0	¥0	¥0	¥0	DOIT	2002	RB2	Bought for PA-210
	Clear acrylic panel			5x171x131, clear	0.8	1	¥999	¥999	¥799	Joyful Honda	2009	CN7	From stock (price is as of Dec 2019)
	Clear acrylic bar	Acrylic bar 2 x 1000mm	Joyful-2	Phi2 L1000	0.3	1	¥66	¥66	¥20	Joyful Honda	2020/02/24		
	Foot	CS-03	3M	Phi11.2 L5.1, clear	0.3	0	¥399	¥0	¥120	Joyful Honda	2019/07/04	FT1-4	From stock
Mounting	Spacer	AMR-320E	Hirosugi Keiki	M3 L20, plastic, F/F x2 set	10	0	¥83	¥0	¥825	Marutsu	2014/12/05	CL8-17	Bought for MA-215
	Spacer	FB3-30	MYG	M3 L30, SUS, F/F	4	10	¥44	¥440	¥176	Marutsu	2019/12/07	CL4-7	
	Shaft Joint	Shaft Joint F/F	Nishikawa Elec	Phi6.1x20mm	1	2	¥198	¥396	¥198	Marutsu	2019/12/07	CL3	
	Spacer	MB3-5	MYG	M3 L5, SUS, M/F	2	10	¥22	¥220	¥44	Marutsu	2019/12/07	CL1-2	
Screw	Brass screw			M3 L6	14	0	¥2	¥0	¥28	neji-no1.com	2015/06/24	SC46-53,58-60,62-64	Bought for MA-215
	Stainless screw			M3 L6	6	0	¥2	¥0	¥12	neji-no2.com	2015/06/24	SC39-42,66-67	Bought for MA-215, cut out of M3 L10
	Stainless screw			M3 L8	1	0	¥2	¥0	¥2			SC45	From stock
	Stainless screw			M3 L5 slim head	6	0	¥10	¥0	¥57	NejiNeji @Rakuten	2019/12/05	SC1-4,43-44	Cut out of M3 L8 slim head
	Stainless screw			M3 L8 slim head	20	100	¥10	¥957	¥191	NejiNeji @Rakuten	2019/12/05	SC5-12,23-30,54-57	
	Stainless screw			M3 L10	6	0	¥2	¥0	¥12	neji-no1.com	2015/06/24	SC17-22	Bought for MA-215
	Stainless screw			M3 L15	4	0	¥33	¥0	¥132	NejiNeji @Rakuten	2019/12/05	SC35-38	Cut out of M3 L18
	Steel screw			M3 L18	4	10	¥33	¥330	¥132	NejiNeji @Rakuten	2019/12/05	SC31-34	
	Plastic screw			M3 L6, clear	2	0	¥10	¥0	¥20	neji-no1.com	2014/12/08	SC61,65	M3 L10 bought for MA-215 substitutes
	Plastic screw			M5 L12, clear	4	4	¥40	¥161	¥161	Joyful Honda	2019/12/05	SC13-16	
	Steel flat washer			M3	4	0	¥1	¥0	¥4			WS1-4	From stock
	Stainless inner clip washer			M3	25	0	¥1	¥0	¥28	neji-no1.com	2014/12/08	WS5-13,16-19,20-27,28-31	Bought for MA-215
	Plastic flat washer			M5	4	0	¥0	¥0	¥0	Joyful Honda	2019/12/05	WS32-35	Included in M5 plastic screws
	Stainless nut			M3	9	0	¥5	¥0	¥45	neji-no1.com	2014/12/08	NT1,4-11	Bought for MA-215
	Plastic nut			M5	2	0	¥0	¥0	¥0	Joyful Honda		NT2-3	Included in M5 plastic screws
Finish	Primer	Multi Premier	Turner Colour Works	Primer for metal and glass	0.2	1	¥795	¥795	¥159	Joyful Honda	2019/12/20	PN2	
	Iron Paint (bronze green)	Bronze Green	Turner Colour Works	Bronze green	0.2	1	¥1,202	¥1,202	¥240	Joyful Honda	2019/12/20	PN2	
	Iron Paint (green patina)		Turner Colour Works	Green patina	0.2	1	¥1,202	¥1,202	¥240	Joyful Honda	2019/12/20	PN2	
	Gloss color paint	Nuro (brown)	Kanpe Hapio	Water paint (brown)	0.4	1	¥407	¥407	¥163	Joyful Honda	2019/12/20	PN5	
	Nail paint	Masquerade Nail - silver m	Kuza	Nail paint (silver metallic)	0.1	1	¥110	¥110	¥11	Seria	2020/01/09	PN3	
	Cellophane sheet	K-43	Kurasawa	4-color transparent sheet	0.1	1	¥143	¥143	¥14	Joyful Honda	2020/01/09	PN3	
	Sticker sheet	#28874N	A-one	A4, white, removable x3	0.33	1	¥1,650	¥1,650	¥545	PC DEPOT	2019/10/28	SK1	
	Sticker sheet	#29421	A-one	A4, white, heavy duty x3	0.33	0	¥1,050	¥0	¥347	PC DEPOT	2016/09/03	SK2	Bought for Dummy Load Board
Mechanical parts total									¥10,047	¥8,945			

Consumative tools

Category	Part name	Model number	Manufacturer	Spec	Used Qty	Purchase Qty	@Price	Price	Cost	Retailer	Purchase date	Ref Des	Note
列1	列2	列3	列4	列5	列6	列7	列8	列9	列10	列11	列12	列13	列14
Finish	Sandpaper	G-P60	Fuji-Tombow	#60	1	0	¥37	¥0	¥37	Joyful Honda	2017/03/23		Bought for AR-416
	Sandpaper	G-P180	Fuji-Tombow	#180	1	0	¥32	¥0	¥32	Joyful Honda	2017/03/06		Bought for AR-416
	Sandpaper	426U	3M	#400	1	0	¥81	¥0	¥81	Joyful Honda	2017/03/06		Bought for AR-416
	Brush	WO-15	Joyful Honda	15mm, for water paint	2	2	¥121	¥242	¥242	Joyful Honda	2019/12/20		
	Sponge	HS-101	Wise	Kitchen sponge (hard)	1	1	¥129	¥129	¥129	Joyful Honda	2019/12/20		
	Magic pen (black)	Mackie ultra thin (black)	Zebra	Magic pen (black)	0.1	0	¥50	¥0	¥5	Joyful Honda			
	Magic pen (green)	Mackie ultra thin (green)	Zebra	Magic pen (bgreen)	0.1	0	¥50	¥0	¥5	Joyful Honda			
Mechanics	Masking tape	243JPL	3M	24W	0.1	1	¥432	¥432	¥43	Joyful Honda	2015/05/14		
	Clear isolation tape	117 CLE 10	Scotch	0.2x19x10000mm, clear	0.01	1	¥51	¥51	¥1	Joyful Honda	2020/01/09		
	Screw lock	1401B	ThreeBond	Green	0.1	0	¥1,150	¥0	¥115	Sugihara Electronics			From stock
Soldering	Silver solder containing Cu	SR4N-CU	Wako Technical	Pb-free, 100g	0.2	0	¥2,830	¥0	¥566	Joshin Web @Rakuten	2014/04/12		Bought for MA-215
	Titan audio oil	TI-102-30ML	Wako Technical	Contact cleaner, 30ml	0.2	1	¥1,580	¥1,580	¥316	Joshin Web @Rakuten	2014/05/04		Bought for MA-215
Labor								¥0	¥0				
								¥0	¥0				
Consumative tool total									¥854	¥1,572			

¥63,603 ¥63,639