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HYBRID 402/502/602

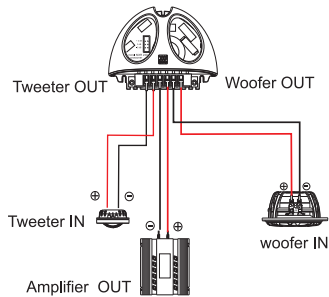
HYBRID INTEGRA 402/502/602

2-way Component Systems Installation Guide

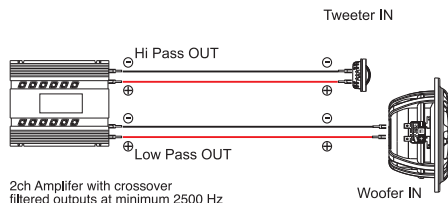
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HYBRID MXR240 CROSSOVER WIRING

PASSIVE SET UP



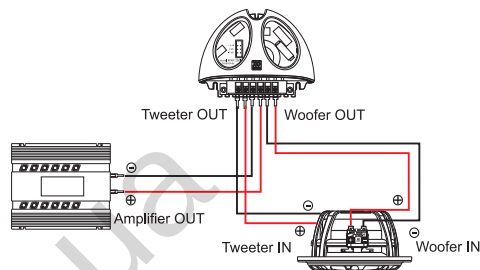
ACTIVE SET UP



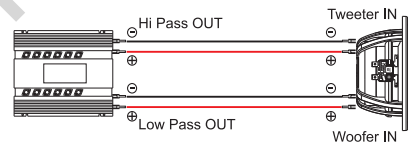
2ch Amplifier with crossover
filtered outputs at minimum 2500 Hz

HYBRID INTEGRA MXR250i CROSSOVER WIRING

PASSIVE SET UP

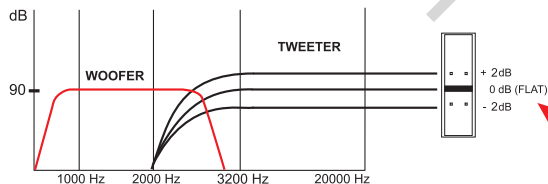


ACTIVE SET UP

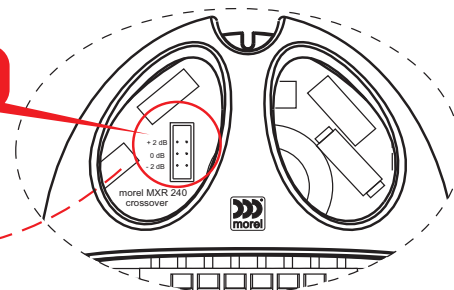


2ch Amplifier with crossover
filtered outputs at minimum 2500 Hz

MXR240 / MXR250i CROSSOVER TWEETER ALIGNMENT



Use the jumper to
determine the tweeter
+/- dB level



SPECIFICATIONS

DRIVE UNIT	HYBRID MW4	HYBRID MW5	HYBRID MW6	HYBRID INTEGRA 4	HYBRID INTEGRA 5	HYBRID INTEGRA 6
Nominal Impedance (Ohms)	4	4	4	4	4	4
Power Handling Wrms	100	120	140	80	90	100
Max. Trans.Pwr Handling Wrms	300	500	600	250	250	300
Sensitivity (2.83V/1M)	89 dB	90dB	91 dB	89dB	90dB	91dB
Frequency Response Hz	50-4200	45-3000	35-3000	80-5000	70-3800	65-3300
Resonant Freq. Fs Hz	82	56	45	92	82	75
Voice Coil Diameter mm (inch)	54 (2.1)	54 (2.1)	54 (2.1)	54 (2.10)	54 (2.1)	54 (2.1)
Voice Coil Height mm (inch)	10.50 (0.41)	10.50 (0.41)	11 (0.47)	-	-	12
Voice Coil Type/ Former	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Voice Coil Wire	Hexatech™ aluminum	Hexatech™ aluminum	Hexatech™ aluminum	Hexatech™ aluminum	Hexatech™ aluminum	Hexatech™ aluminum
DC Resistance (Ohms)	3.2	3	3	3	3.3	3.3
Voice Coil Induct. @1 kHz (mH)	0.21	0.21	0.22	0.17	0.26	0.31
Magnet System	Hybrid rear vented	Hybrid rear vented	Hybrid rear vented	Neodymium	Neodymium	Neodymium
HE-Magnetic Gap Height mm (inch)	4 (0.16)	4 (0.16)	4 (0.16)	4 (0.16)	5 (0.20)	5 (0.20)
B-Flux Density (T.M.)	0.83	0.83	0.83	0.9	0.9	0.85
BL Product/BXL	4.16	4.2	4.2	3.97	5.16	4.65
Max. Linear Ex./Xmax mm (inch)	7±3.5 (0.28±0.14)	7±3.5 (0.28 ± 0.14)	7±3.5 (0.28±0.14)	4±2 (0.16±0.08)	5.50±2.75 (0.22±0.11)	7±3.5 (0.28±0.14)
Suspension Compliance CMS - mm/VN	0.57	0.78	1.1	0.66	0.6	0.42
Electrical Q Factor QES	0.63	0.59	0.56	0.45	0.39	0.67
QTS	0.46	0.45	0.44	0.36	0.32	0.54
QMS	1.74	1.8	2.08	1.72	1.85	2.86
Mech.Resistance RMS - Ohm/meter	1.98	1.96	1.5	1.44	1.7	1.52
Moving Mass MMS - gr/ ounce	6.8	9.9	11	4.4	6.11	8.12
Equiv. Can Air Load VAS - L (cu.ft)	3.17 (0.11)	8.87 (0.31)	21 (0.74)	1.40 (0.04)	2.72 (0.37)	3.80 (0.13)
Effective Piston Area SD sq.cm (sq. inch)	64 (9.92)	90 (13.95)	119 (18.45)	39 (6.04)	57 (8.83)	80 (37.8)
Cone Type	One-piece formed	One-piece formed	One-piece formed	Formed Paper	Formed Paper	Formed Paper
Cone Material	DPC	DPC	DPC	Composite cellular fiber	Composite cellular fiber	Composite cell. fiber
Unit Diameter mm (inch)	104 (4)	135 (5.25)	165 (6.50)	104 (4.0)	135 (5.25)	165 (6.5)
Mounting Depth mm (inch)	50 (21)	60 (2.36)	61 (2.40)	50 (2.1)	60 (2.36)	61 (2.40)
Mounting Cutout mm (inch)	95 (3.74)	120 (4.72)	141 (5.55)	95 (3.74)	120 (4.72)	141 (5.55)
Net Weight Kg (lb)	0.53 (1.1716)	0.60 (1.32)	0.60 (1.32)	0.50 (1.10)	0.60 (1.32)	0.75 (1.65)

TWEETERS	MT230
Nominal Impedance (Ohm)	6
Power Handling (WRms)	130
Max Transient Power Handling W (10ms)	350
Sensitivity (2.83V/1M) dB	93
Frequency Response Hz	1600-25000
FS Hz	1200
Voice Coil Diameter mm (inch)	28 (1.125)
Voice Coil Former	Aluminum
Voice Coil Wire	Hexatech™ Aluminum
DC Resistance Ohm	5.2
Magnet System	Double Magnet Neodymium
Dome Type	Acuflex™ Hand Coated Soft Dome
Dome Material	Silk
Unit Diameter mm (inch)	45.00 (1.8)
Mounting Depth mm (inch)	20.00 (0.80)
Mounting Cutout mm (inch)	50.00 (2.00)
Net Weight Kg(lb)	0.067 (0.134)

CROSSOVERS	MXR240	MXR250i
Crossover Point	W: 2200Hz / 18dB T: 2200Hz / 12dB	2200Hz / 12dB/Oct
Crossover Controls	Tweeter+/- 2dB	Tweeter+/- 2dB
Wiring Options	N/A	N/A

* Morel operates a policy of continuous products design improvement, consequently specifications are subject to alteration without prior notice.

