

Dear Customer,

Thank you for choosing Morel for your car audio speaker solution.

Morel prides itself on engineering and producing the best high-fidelity speaker systems.

We hope you enjoy your Integration Reference speakers for years to come.

If you have any questions, please contact your Morel dealer or Morel support at:

www.morelhifi.com

Components

Component System

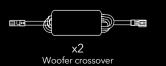


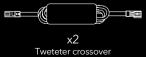




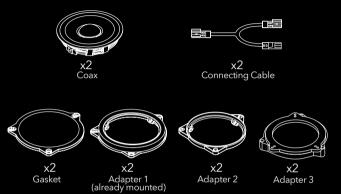








Integra System

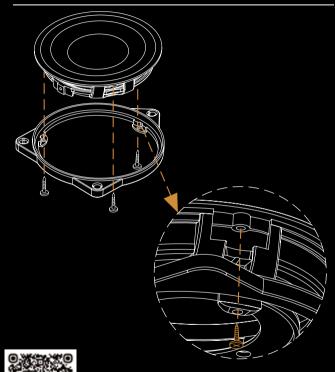


Installation tools



Component Midwoofer and Coax Adapter Assembly

Assembly Overview



Configuration A



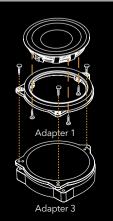


Configuration B

Configuration C



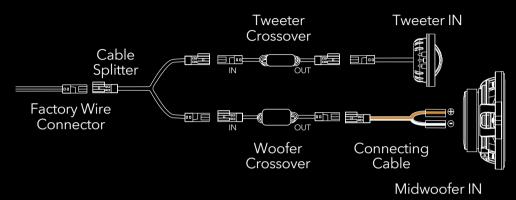
Configuration D



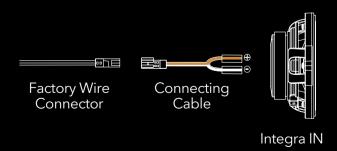
Scan for vehicle-specific compatibility information

Speaker Connection

IR-BMW42 Component System

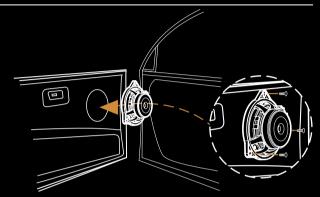


IR-BMW42INT Integra System

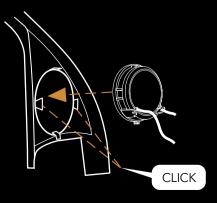


Woofer, Integra and Tweeter Installation

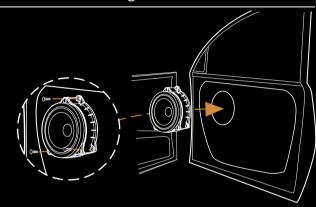
4" Woofer and Integra - Trim Installation



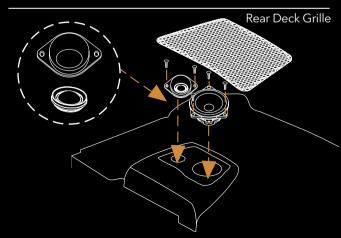
Tweeter - Front Installation



4" Woofer and Integra - Door Installation



Tweeter - Rear Deck Installation



Specifications

	MIDWOOFER	INTEGRA
Nominal Impedance (ohm)	4	4
Power Handling Wrms	100	80
Max. Trans. Pwr Handling Wrms	300	250
Sensitivity (2.83 V/1M) dB	92	90
Frequency response Hz	50-4200	80-20,000
Resonant Freq. Fs Hz	82	92
Voice Coil Diameter mm (inch)	54 (2.1)	54 (2.1)
DC Resistance (ohm)	2.8	3
Magnet System	Neodymium	Neodymium
HE-Magnetic Gap Height mm (inch)	4 (0.16)	4 (0.16)
B-Flux Density (T)	0.95	1
BL Product/BXL	5.1	4.3
Suspension Compliance CMS - mm/N	0.5	0.5
Electrical Q Factor QES	0.36	0.5
QTS	0.3	0.4
QMS	2.12	2.47
Mech. Resistance RMS- N • S / M	1.68	1.3
Moving Mass MMS - gr/ounce	6.4(0.22)	5.2 (0.18)
Equiv. Can Air Load VAS - L (cu.ft³)	2.2(0.07)	0.7 (0.02)
Effective Piston Area SD sq.cm (sq.inch)	55.4(8.58)	31.6 (4.9)
Cone Material	DPC	Composite cellular fiber
Unit Diameter mm(inch)	96.7 (3.8)	96.7 (3.8)
Net Wight Kg (lb)	0.35 (0.77)	0.37 (0.81)

 $[\]hbox{^*Morel operates a policy of continuous products design improvement, consequently specifications are subject to alteration without prior notice}$

TWEETER	IR-BMW42	
Nominal Impedance (ohm)	4	
Power Handling Wrms	100	
Max. Trans. Pwr Handling Wrms (10ms)	200	
Sensitivity (2.83 V/1M) dB	91.5	
Frequency Response Hz	1600-20000	
FS Hz	900	
Voice Coil Diameter mm (inch)	28 (1.1)	
Voice Coil Wire	Aluminium	
Magnet System	Neodymium Vented	
Mounting Depth mm (inch)	20 (0.8)	

CROSSOVERS	TWEETER	MIDWOOFER
Crossover Point	2700Hz/12dB (highpass)	2700Hz/12dB (lowpass)

Wishing you many years of sound enjoyment!



Morel, Ness Ziona, 70400 Israel. Tel: +972-8-9301161 Fax: +972-8-9301312 E-mail: info@morelhifi.com Morel America, Chandler, AZ, USA Toll free number:1-877-667-3511 Fax: 1-718-721-1560 E-mail: info@morelamerica.com

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Scan for vehicle-specific compatibility information

INTEGRATION REFERENCE IR-BMW4INT



As part of the Reference level, the IR-BMW4INT point source system for BMW takes sound performance to new levels. Music lovers will be consumed by the level of tonal purity, detail and ease of listening.

Featuring DirectFit, the unique 4-inch (100mm) chassis design with supplied mounting brackets and factory wire connections allow the IR-BMW4INT to fit modern BMW models without the need for modification.

The IR-BMW4INT is based on Morel's highly regarded Hybrid Integra speaker series. Each 4-inch point source uses 2.1" (51mm) voice coil and powerful hybrid EVC motor design, offering exceptional power handling and unmatched cone control. The concentrically mounted hi-res tweeter uses Morel's proprietary 1.1" (28mm) Acuflex silk dome and dual neodymium magnet motor. This culminates into a plug-and-play speaker system that simply has no equal.

Key advantages

- · DirectFit design for easy installation
- · No need for any modification
- · Designed for amplifier and DSP upgrade
- · Optimized for BMW to deliver ultimate HiFi quality sound
- · Plug and Play wire connection
- · High power handling and low distortion
- · All mounting hardware is included for ALL BMW models
- · Installation tools included

Specifications

Configuration	Integra
Woofer Size	4" (100mm)
Tweeter	1.1" (28 mm)
Nominal Impedance (ohm)	4
Nom. Power Handling (Wrms)	80
Max Power Handling (W)	250
Sensitivity (2.83 V/1M) dB	90
Frequency Response (Hz)	80-25,000





