

Sensus Installation Guide

Sensus

62, 63

Components

MS6, MS3, TS1,
MXR230S, MXR133S



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 Sensus speakers for years to come.
If you have any questions, please contact your Morel dealer or Morel support at:
www.morelhifi.com

Sensus

WS6 Woofer



X2



X8



X8

TS1 Tweeter



X2



X2



X2



X4



X2

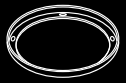


X2

MS3 Midrange (Sensus 63 only)



X2



X2



X2

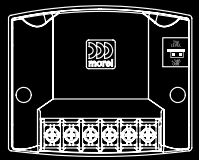


X8



X8

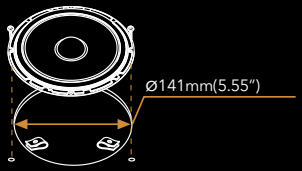
MXR230S / MXR133S Crossover



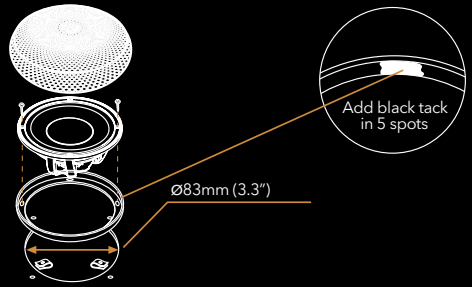
X2

Midrange, Woofer and Tweeter mounting

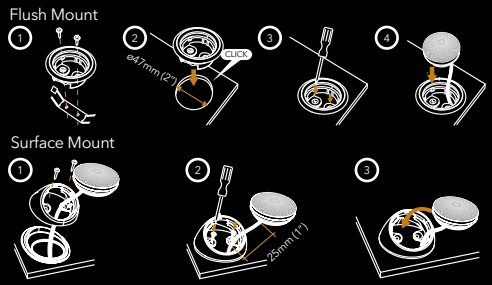
WS6 Woofer



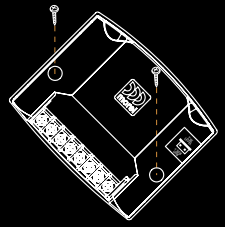
MS3 Midrange



TS1 Tweeter



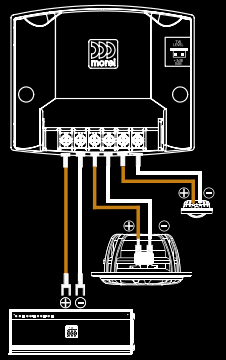
MXR230S / MXR133S Crossover



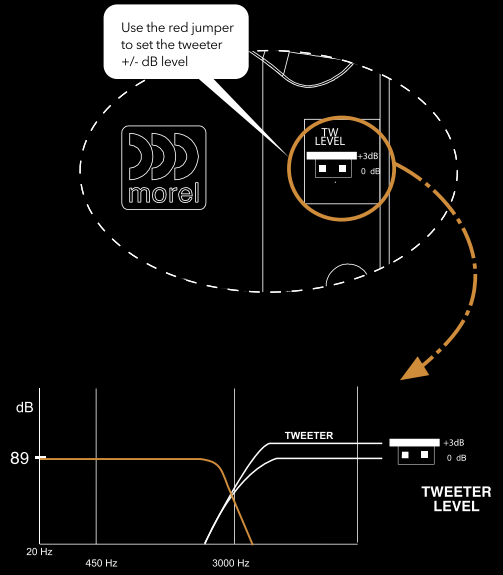
Crossover Connections

2-WAY System Crossover

① Standard wire connection with bridged jumpers



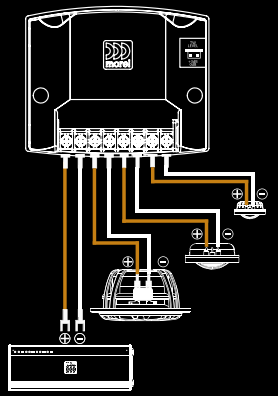
2-WAY System Alignment



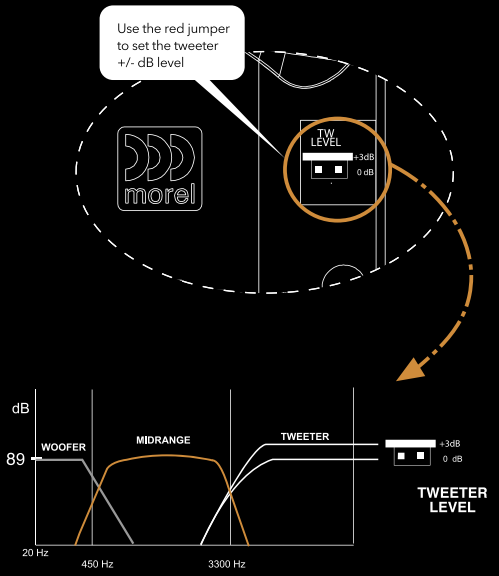
Crossover Connections

3-WAY System Crossover

① Standard wire connection with bridged jumpers



3-WAY System Alignment



Specifications

SENSUS	WS6
Nominal Impendance (ohm)	4
Power Handling Wrms	120
Max. Trans. Pwr Handling Wrms	300
Sensitivity (2.83 V/1M)	88dB
Frequency response Hz	40-4000
Resonance Freq. Fs Hz	55
Voice Coil Diameter mm (inch)	33 (1.29)
Voice Coil Height mm (inch)	12 (0.47)
Voice Coil Type/Former	Aluminum
Voice Coil Wire	Copper
DC Resistance (ohm)	3.2
Magnet System	Ferrite
HE-Magnetic Gap Height mm (inch)	5 (0.19)
BL Product/BXL	5.4
Max. Linear Ex./Xmax mm (inch)	±3.5mm (0.13)
Electrical Q Factor QES	0.7
QTS	0.6
QMS	4.01
Moving Mass MMS - gr/os	15 (0.53)
Equiv. Can Air Load VAS - L (cu.ft³)	9 (0.31)
Effective Piston Area SD sq.cm (sq.inch)	116.9 (2.619505)
Cone Type	One-piece formed
Cone Material	Polypropylene
Unit Diameter mm(inch)	165 (6.5)
Mounting Depth mm (inch)	61 (2.4)
Mounting Cutout	141 (5.55)
Net Weight Kg(lb)	1.26 (2.77)

MIDRANGE / TWEETER	MS3	TS1
Nominal Impendance (ohm)	4	4
Power Handling Wrms	100	100
Max. Trans. Pwr Handling Wrms (10ms)	300	250
Sensitivity (2.83 V/1M) dB	85	89
Frequency Response Hz	120-6000	1600-25000
FS Hz	95	1100
Voice Coil Diameter mm (inch)	25 (0.98)	28 (1.125)
Voice Coil Former	Fiberglass	Aluminium
Voice Coil Wire	Copper	Copper
DC Resistance ohm	3.3	3.7
Magnet System	Hybrid	Double Magnet Neodymium
Cone/Dome Type	One-piece formed	Soft dome
Cone/Dome Material	Polypropylene	Silk
Unit Diameter mm(inch)	100 (3.90)	43.00 (1.69)
Mounting Depth mm (inch)	38 (1.50)	13.2 (0.52)
Mounting Cutout	83 (3.3)	47.00 (2)
Net Weight Kg (lb)	0.44 (0.97)	0.07 (0.15)

CROSSOVERS	MXR230S	MXR133S
Crossover Point	W: 3000Hz/12dB T: 3000Hz/12dB	W: 600Hz/12dB M: 600Hz/12dB 3300Hz/12dB T: 3300Hz/12dB
Crossover Controls	Tweeter 0/+3dB	Tweeter 0/+3dB

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

Reccomended Active Configuration

Sensus 62:

Reccomended Active Crossover
Tweeter HP: 2,500Hz @ 12dB or 24dB slope
Woofer LP: 2,500Hz @ 12dB or 24dB slope

Sensus 63:

Reccomended Active Crossover
Tweeter HP: 2,500Hz @ 12dB slope
Midrange LP: 2,500Hz @ 12dB slope
Midrange HP: 300Hz @ 12dB
Woofer LP: 300Hz @ 12dB

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