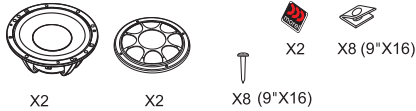




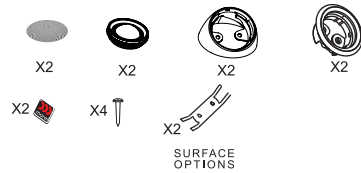
ELATE TITANIUM 502/602/902/503/603/903
2-Way / 3-Way Component Systems Installation Guide

PACKAGE CONTENT

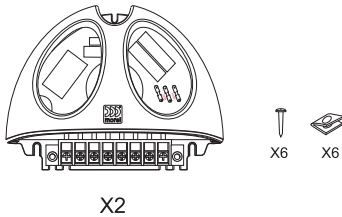
ELATE TITANIUM 5",6",9" WOOFER



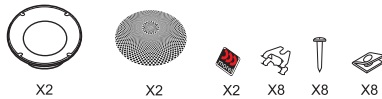
MT350 TWEETER



MXT380/MXT280 CROSSOVER

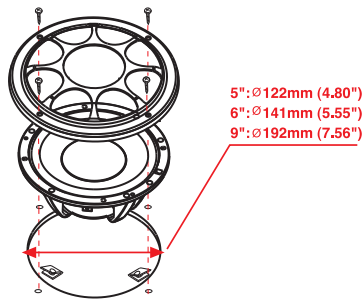


CDM 880 MIDRANGE (ONLY IN 503 / 603 / 903)

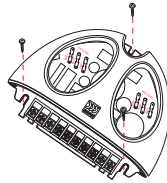


MIDRANGE, WOOFER & CROSSOVER MOUNTING

WOOFER UNIT 5",6",9"

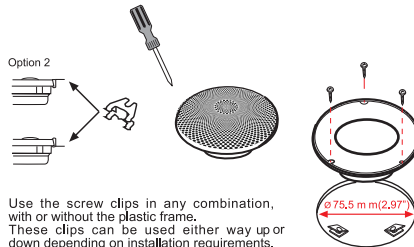


MXT380 & MXT280 CROSSOVER MOUNTING



CDM880 MIDRANGE MOUNTING

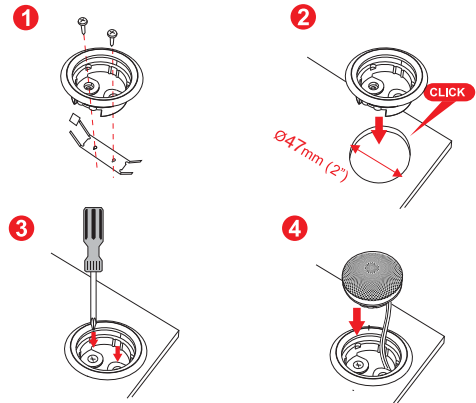
Option 1



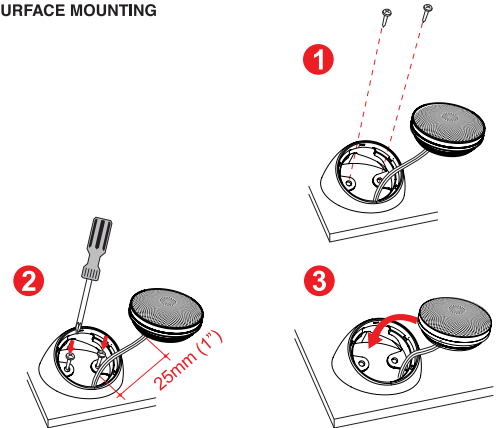
Use the screw clips in any combination, with or without the plastic frame. These clips can be used either way up or down depending on installation requirements.

TWEETER MOUNTING

FLUSH MOUNTING

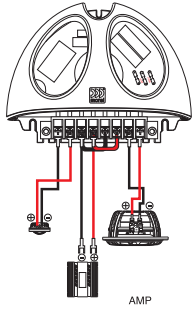


SURFACE MOUNTING

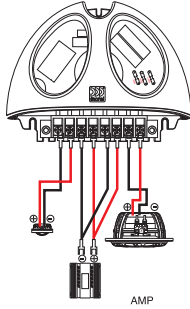


MX 280 2-WAY CROSSOVER WIRING OPTIONS

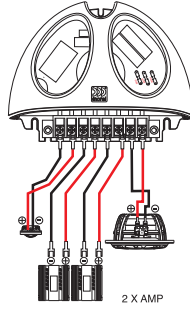
- 1 Standard wire connection**
With bridged jumpers



- 2 Bi Wire connection**
No bridged jumpers

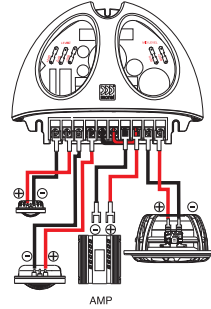


- 3 Bi Amp connection**
No bridge jumpers

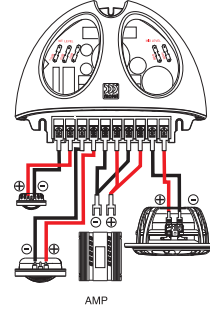


MX 380 3-WAY CROSSOVER WIRING OPTIONS

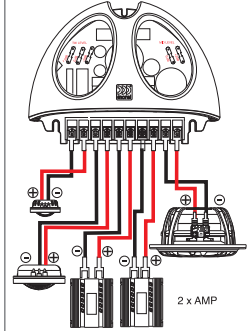
- 1 Standard wire connection**
With bridged jumpers



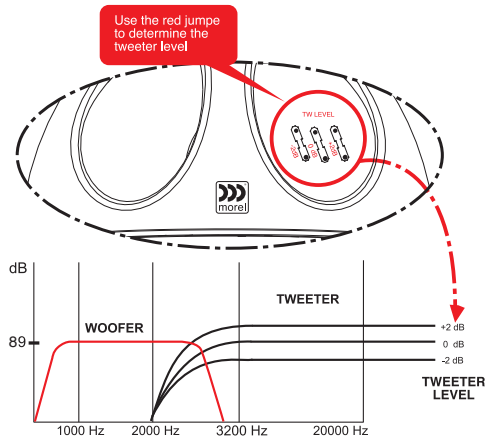
- 2 Bi Wire connection**
No bridged jumpers



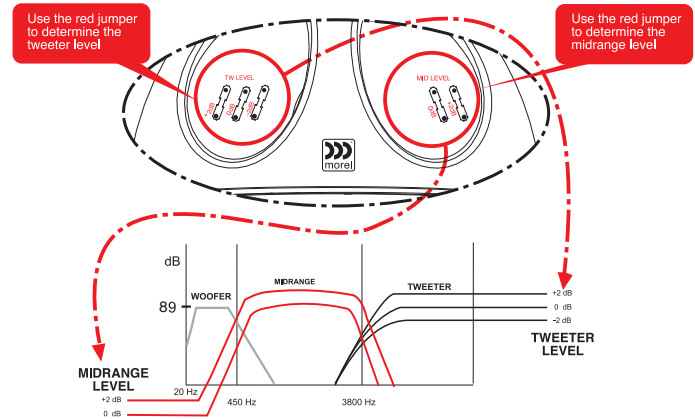
- 3 Bi Amp connection**
No bridge jumpers



MXT280 CROSSOVER ALIGNMENT SYSTEMS



MXT380 CROSSOVER ALIGNMENT SYSTEMS



SPECIFICATIONS

| WOOFERS | ELATE Ti MW5 | ELATE Ti MW6 | ELATE Ti MW9 |
|---|---------------------------|---------------------------|---------------------------|
| Nominal Impedance (ohm) | 4 | 4 | 4 |
| Power Handling Wrms | 160 | 180 | 200 |
| Max. Trans.Pwr Handling Wrms | 1000 | 1000 | 1000 |
| Sensitivity (2.83V/1M) | 87dB | 88dB | 89 dB |
| Frequency Response Hz | 40-5000 | 30-4000 | 25-3000 |
| Resonant Freq. Fs Hz | 58 | 54 | 45 |
| Voice Coil Diameter mm (inch) | 75 (3) | 75 (3) | 75 (3) |
| Voice Coil Height mm (inch) | 14.50 (0.57) | 14.50 (0.57) | 14.50 (0.57) |
| Voice Coil Type/ Former | Titanium | Titanium | Titanium |
| Voice Coil Wire | Hexatech™aluminum | Hexatech™ aluminum | Hexatech™ aluminum |
| DC Resistance (ohm) | 3.6 | 3.6 | 3.6 |
| Voice Coil Induct. @1 kHz (mH) | 0.615 | 0.615 | 0.615 |
| Magnet System | Double magnet rear vented | Double magnet rear vented | Double magnet rear vented |
| HE-Magnetic Gap Height mm (inch) | 5 (0.20) | 5 (0.20) | 5 (0.20) |
| B-Flux Density (T) | 0.66 | 0.75 | 0.74 |
| BL Product/BXL | 5.15 | 5.15 | 5.15 |
| Max. Linear Ex./Xmax mm (inch) | ±4.75mm (0.18) | ±4.75mm (0.18) | ±4.75mm (0.18) |
| Suspension Compliance CMS - mm/N | 0.33 | 0.33 | 0.33 |
| Electrical Q Factor QES | 1.05 | 1.05 | 1.6 |
| QTS | 0.9 | 0.9 | 1.2 |
| QMS | 8 | 6.3 | 6 |
| Mech.Resistance RMS - N/S/M | 1.1 | 1.2 | 1.7 |
| Moving Mass MMS - gr/ ounce | 18 (0.63) | 20 (0.70) | 30(1.05) |
| Equiv. Can Air Load VAS - L (cu.ft.) | 3 (0.1) | 7.00(0.24) | 26.00(0.91) |
| Effective Piston Area SD sq.cm (sq. inch) | 90 (13.95) | 119(18.45) | 219(33.95) |
| Cone Type | One-piece formed | One-piece formed | One-piece formed |
| Cone Material | DPC | DPC | DPC |
| Unit Diameter mm (inch) | 135 (5.25) | 165 (6.50) | 222 (8.75) |
| Mounting Depth mm (inch) | 60 (2.36) | 61 (2.40) | 71 (2.80) |
| Mounting Cutout mm (inch) | 120 (4.72) | 141 (5.55) | 192 (7.56) |
| Net Weight Kg (lb) | 1.05 (2.31) | 1.18 (2.60) | 1.42 (3.13) |

| CROSSOVERS | MXT280 | MXT380 |
|--------------------|-----------------------------------|---|
| Crossover Point | W: 2500Hz/12dB T: 2500Hz /12dB | W: 450Hz/12dB M: 450Hz/6dB 4300Hz/12dB T: 4300Hz/ 12dB |
| Crossover Controls | Tweeter+/- 2dB | Tweeter+/- 2dB Mid +/- 2dB |
| Wiring Options | Bi wire / Bi amp | Bi wire / Bi amp |

| MIDS & TWEETERS | CDM880 | MT350 |
|---------------------------------------|--------------------------------|--------------------------------|
| Nominal Impedance (ohm) | 6 | 6 |
| Power Handling (Wrms) | 100 | 130 |
| Max Transient Power Handling W (10ms) | 300 | 350 |
| Sensitivity (2.83V/1M) dB | 88 | 90 |
| Frequency Response Hz | 300-6000 | 1400-25000 |
| FS Hz | 400 | 1000 |
| Voice Coil Diameter mm (inch) | 54 (2.125) | 28 (1.125) |
| Voice Coil Former | Aluminum | Aluminum |
| Voice Coil Wire | Hexatech™ aluminum | Hexatech™ aluminum |
| DC Resistance ohm | 5.1 | 5.2 |
| Magnet System | Neodymium Rear Vented | Neodymium Rear Vented |
| Dome Type | Acuflex™ hand coated soft dome | Acuflex™ hand coated soft dome |
| Dome Material | Silk | Silk |
| Unit Diameter mm (inch) | 88.00 (3.50) | 43.00 (1.69) |
| Mounting Depth mm (inch) | 21.00 (0.83) | 13.00 (0.51) |
| Mounting Cutout mm (inch) | 75.50 (2.97) | 46.00 (1.81) |
| Net Weight Kg(lb) | 0.22 (0.48) | 0.07 (0.15) |

Active Configuration

Setting up the Elate Titanium system system using an external electronic crossover network may vary on the processor itself, the car cabin acoustic attributes, and mounting location of the drive units. Choosing proper crossover points and slopes can greatly effect the system performance.

The following guidelines should be used to assure each drive unit in the system performs to the highest level. The Optimal Crossover Points/Slope guide should be used for most vehicle applications. Advanced users may refer to the Recommended Crossover Range/Minimum Slope guide for fine system fine tuning.

Elate 503, 603, 903
Optimal Crossover Points/Slope
 Tweeter highpass: 3300Hz/12dB
 Midrange lowpass: 3300Hz/12dB
 Midrange highpass: 450Hz/12dB
 Woofer lowpass: 450Hz/12dB
 *Woofer highpass: 60Hz/12dB

Elate 502, 602, 902
Optimal Crossover Points/Slope
 Tweeter highpass: 2000Hz/12dB
 Woofer lowpass: 1800Hz/12dB
 *Woofer highpass: 60Hz/12dB

Recommended Crossover Range/Minimum Slope
 Tweeter highpass: 1800Hz-3000Hz/12dB
 Woofer lowpass: 1800Hz-3000Hz/6dB
 *Woofer highpass: 40Hz-80Hz/12dB

Recommended Crossover Range/Minimum Slope
 Tweeter highpass: 1800Hz-4000Hz/12dB
 Midrange lowpass: 1800Hz-4000Hz/6dB
 Midrange highpass: 300Hz-750Hz/12dB
 Woofer lowpass: 350Hz-750Hz/6dB
 *Woofer highpass: 40Hz-80Hz/12dB