

# REACTOR AMPLIFIERS

RE-AM45020, RE-AM90010, RE-AM90040

## Amplifier Specifications

	RE-AM45020	RE-AM90010	RE-AM90040
<b>Max Power Rating</b>	450 Watts	900 Watts	900 Watts
<b>Frequency Response</b>	10Hz - 40kHz	10Hz - 250Hz	10Hz - 40kHz
<b>Dimensions (mm)</b>	285(L)x 280(W) x 62(H)	355(L)x 280(W) x 62(H)	405(L)x 280(W) x 62(H)
<b>Power Ratings</b>	90 Watts RMS per Channel @ 4 Ohms 1% THD+N 130 Watts RMS per Channel @ 2 Ohms 1% THD+N 250 Watts RMS Bridged Channels @ 4 Ohms 1% THD+N	240 Watts RMS x 1 Channel @ 4 Ohms 1% THD+N 350 Watts RMS x 1 Channel @ 2 Ohms 1% THD+N	90 Watts RMS per Channel @ 4 Ohms 1% THD+N 125 Watts RMS per Channel @ 2 Ohms 1% THD+N 230 Watts RMS Bridged Channels @ 4 Ohms 1% THD+N

## Installation Guidelines

1. Ensure the +12v lead is disconnected from the battery before you connect any new equipment.
2. Ensure the mounting location will not interfere with the gas tank, brake lines or electrical wiring.
3. Ensure the Amplifier is securely fastened to the vehicle to prevent damage in the event of an accident.
4. Ensure all wiring is protected to avoid pinching or crushing which could result in damage to the audio system.
5. Ensure the mounting location has sufficient air flow around the amplifier. If the amplifier is mounted in an enclosed space a 3" fan with ducting should be used to aid in air flow.
6. Do not mount any amplifier on a subwoofer enclosure as extended exposure to vibration may cause malfunction of the amplifier.
7. Ensure you use the recommended gauge wire/cable for all amplifier connections.

## Wiring

Ensure the audio system is turned off before making any connections to the amplifier, speakers or source unit. Failure to do so could result in permanent damage to the audio system. When wiring the FUSION amplifier ensure that the cable is protected from sharp objects and always use rubber grommets when wiring through metal panels. Ensure all terminals and connections are protected from the vehicle chassis and from each other as failure to do so could result in permanent damage to the audio system.

## Power

FUSION amplifiers should be connected directly to the +12v battery terminal with an inline fuse or circuit breaker as close to the battery as possible.

## Ground

When grounding/earthing your amplifier ensure that the location is a good source of ground (preferably the floor pan). Make sure the metal is clean of paint etc as a poor earth could damage your audio system.

## Remote Turn On

This connection turns the amplifier on and should be connected to the remote turn on wire from the Head Unit. If one is not available a switched 12v source must be used. Either a power antenna wire or ACC +12v.

## Low Level Inputs

Choose the correct length RCA interconnects and run them to the RCA outputs of the source/head unit, avoiding running beside other looms and or power cable.

## Level Control

This control is used to match the input level of the amplifier to the output level of you head unit. We recommend the following method.

Turn the amplifier level to zero

Turn the volume of the head unit to  $\frac{3}{4}$  and the bass and treble to zero

Adjust the level control until the desired maximum volume is achieved without distortion.

Failure to follow these steps may cause permanent damage to the audio system.

### Recommended Amplifier Installation Kits

FUSION recommends the following Amplifier Installation Kit to be used with Reactor Amplifiers

RE-AM90010	Reactor Monoblock Amplifier	AC- AK04	4 Gauge Installation Kit
RE-AM45020	Reactor 2 Channel Amplifier	AC- AK08	8 Gauge Installation Kit
RE-AM90040	Reactor 4 Channel Amplifier	AC- AK04	4 Gauge Installation Kit

### Trouble Shooting

PROBLEM	POSSIBLE REASON	SOLUTION
Amplifier not switching on. Power LED not 'on'	• No +12v to power wire	• Check fuses and connections to battery
	• No power to remote wire	• Check remote on connections to head unit
	• Fuse broken	• Replace fuse with correct type and amperage
Amplifier not working, but status LED 'on'	• Fuse on amplifier blown	• Replace fuse with correct type and amperage
	• Amplifier too hot	• Move amplifier to vented area • Turn head unit down
	• Speaker wires shorted	• Check that there are no speaker wires shorted to another wire or to the vehicle chassis
No sound	• RCA Signal	• Check RCA connection to head unit
	• Gain control not set up	• Ensure you have set up the amplifier gain level control
	• Head Unit	• Check head unit volume level
	• Amplifier	• Check all power, remote on and ground connections
	• Speakers	• Check speakers for wire shorts

For further product and installation information please visit [www.fusionelectronics.com](http://www.fusionelectronics.com)

Para obtener más información sobre los productos o su instalación, visite [www.fusionelectronics.com](http://www.fusionelectronics.com)

Weitere Informationen zum Produkt und zur Installation finden Sie auf folgender Website: [www.fusionelectronics.com](http://www.fusionelectronics.com)

Ga naar [www.fusionelectronics.com](http://www.fusionelectronics.com) voor meer product- en montage-informatie

Pour plus de renseignements sur les produits et l'installation, veuillez consulter [www.fusionelectronics.com](http://www.fusionelectronics.com)

Per ulteriori informazioni su prodotto e installazione, potete visitare [www.fusionelectronics.com](http://www.fusionelectronics.com)

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MODEL NUMBER \_\_\_\_\_ DATE OF PURCHASE \_\_\_\_\_

AFFIX RECEIPT HERE

**WARNING! Audio Systems can produce sound levels over 135dB. Continuous exposure to sound pressure levels over 100dB may cause permanent hearing loss! Please watch for emergency vehicles as warning signals may not be heard. USE COMMON SENSE!**

V 4.0

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