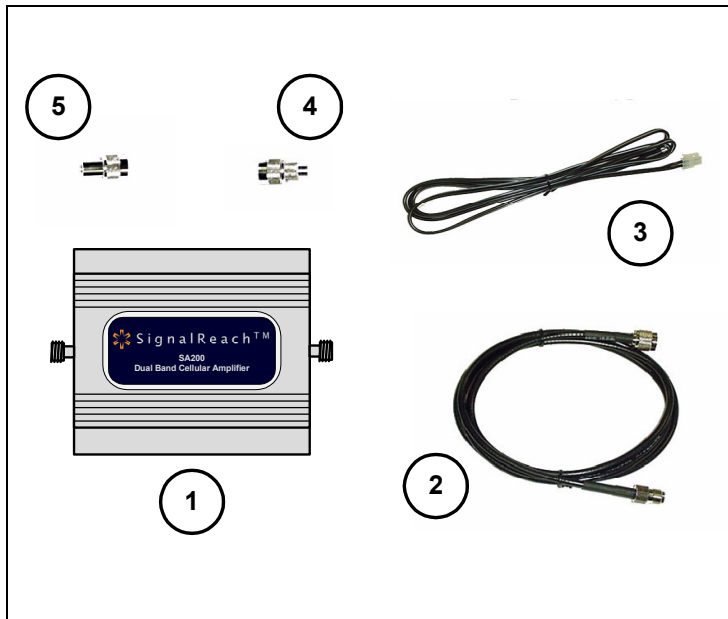


SA200 Signal Amplifier Installation Manual

Note: Before installing the SA200 Signal Amplifier, please read the entire contents of this manual.

Parts List




Item	Description
1	SA200 Signal Amplifier.
2	1.5 meter (59") RF cable.
3	2 meter (78")  power cable.
4	Connector adapter FME female to TNC male.
5	Connector adapter FME male to TNC male.
6	Cellular telephone / Cradle or RF Output Device. (Optional item purchased separately)
7	Antenna Cable. (Optional item purchased separately)
8	Antenna. (Use 3 dB antenna for optimal performance) (Optional item purchased separately)



Tools and Other Materials Required

Item	Description
1	Electric drill (as required for signal amplifier mounting holes).
2	Screw driver.
3	Qty 4 screws (length and type as required for signal amplifier mounting).
4	Wire cutters / strippers.
5	Qty 2 wire connection insulators or insulating material (as required for  power cable connection to 12V  system).

WARNINGS!

- ▽ **NOTICE:** During transmitter operation, a minimum distance of 50cm (20 in.) shall be maintained between the antenna and personnel, in order to meet the maximum permissible exposure (MPE) limits in section 1.1310 of FCC Rules.
- ▽ Mounting a signal amplifier in the engine cavity or on the underside of the vehicle will void the manufacturer's warranty.
- ▽ Subjecting the amplifier to voltages greater than 30V  will damage the amplifier and void the manufacturer's warranty.
- ▽ Any vehicle with an electrical system of greater than 30V  should use a step-down voltage regulator to bring the voltage within the operating power range of the amplifier (10-30V ).
- ▽ Under no circumstances should the amplifier be powered up without a properly connected 50 ohm 800/1900 MHz cellular antenna or the amplifier may be damaged, resulting in the manufacturer's warranty being void.
- ▽ For optimum performance and compatibility with cellular service provider requirements, it is recommended that an external antenna with a maximum gain of 3dB be installed.
- ▽ Use of cellular amplifiers with antennas of higher gains than 5 dBd gain is in violation of FCC regulations for which the offender will be fully liable, and warranty claims will be voided.

It is recommended that only certified automotive installation technicians install this product in a vehicle. Installation by any other person is at the risk of the vehicle owner and operator.

SA200 Signal Amplifier Installation Manual

Installation

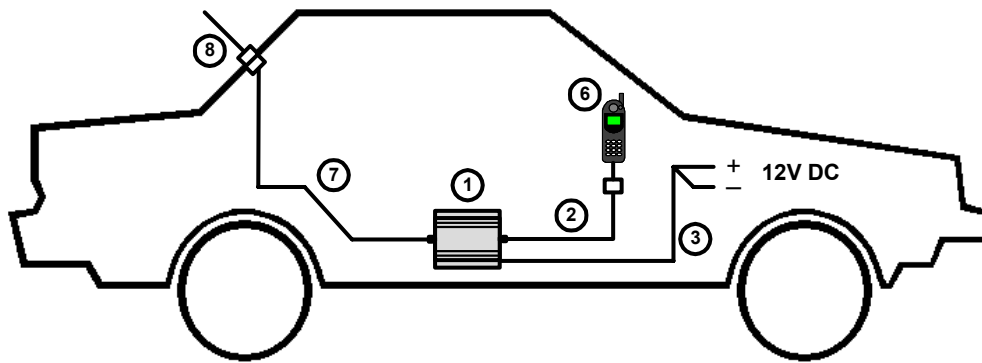
Selecting a Suitable Location to Mount the Signal Amplifier

Locate a suitable place to mount and conceal the signal amplifier. Suggested mounting locations include: under the dashboard, under the seat, or in the trunk. For peak performance the signal amplifier should be installed using the supplied cabling and connectors. The amplifier should be mounted away from moving parts, as well as excessive heat and/or moisture.

Installation Cautions

- ▽ Use caution to avoid drilling through or near fuel lines or fuel tanks; brake lines; or electrical wiring.
- ▽ Do not mount the signal amplifier or its associated wiring in a location that may interfere with the safe operation of the vehicle.

Installation Of The Signal Amplifier



Typical Installation For Under The Seat Mounting

1. For safety, disconnect the vehicle's negative (-) battery terminal to remove power from the vehicle.
2. Drill holes and mount the signal amplifier (1) in the selected location.
3. Connect the white-striped black wire of the supplied 2-meter (78") power cable (3) to a positive connection on the vehicle's electrical system. Choose a **10-30V** circuit that is fuse protected and ignition switched. (Often referred to as the "Accessory Output")
4. Attach the solid black wire of the supplied 2-metre (78") power cable (3) to a vehicle electrical ground point.
5. Connect the amplifier's **ANTENNA** connector to the 3dB antenna using the provided antenna cable (7) and adapter (4) or (5) if necessary.
6. Connect the amplifier's **PHONE** connector to the cellular phone handset via a cradle using the provided 1.5 Meter (59") RF cable (2) and adapter (4) or (5) if necessary.
7. Reconnect the vehicle's negative (-) Battery terminal.

Limited Warranty

The SA200 Signal Amplifier is warranted free from any defects in material or workmanship for a period of one year. If a defect in material or workmanship is found, the product will be repaired or replaced at the discretion of the manufacturer, free of charge to the original purchaser. Please return the product along with proof of purchase to the original point of purchase. This warranty is null and void if the product has been modified, abused, tampered with, subjected to abnormal conditions, or transferred to someone other than the original purchaser.

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