

SPT-31GM Speaker System for Chevrolet/GMC Installation Manual



Model: Select GM Trucks and SUVs

Model Year: 2014-up Trucks

Compatible Vehicles*

	Year	Model	Configuration	Trim
Chevrolet	2014-up	Silverado 1500	Double Cab	WT, LS, Custom, LT, LTZ
			Crew Cab	WT, LS, LT, LT Z71, LTZ, LTZ Z71
		Silverado 2500HD	Double/Crew Cab	WT, LT, LTZ
		Silverado 3500HD	Double/Crew Cab	WT, LT, LTZ
GMC	2014-up	Sierra 1500	Double/Crew Cab	Sierra, SLE, SLT
		Sierra 2500HD	Double/Crew Cab	Sierra, SLE, SLT
		Sierra 3500HD	Double/Crew Cab	Sierra, SLE, SLT

^{*} The specified vehicles have been tested and have met compatibility specifications at the time of testing.

Compatibility is not guaranteed if the manufacturer has made production changes to the vehicles listed above.

Factory systems equipped with Bose are not compatible with this system.

Introduction

Design and specifications are subject to change without notice for improvement.

To Ensure Safe Use, Always Follow These Precautions

- The installation of this product requires specialized skills and experience. We recommend that you have the product installed by an authorized Alpine dealer.
- Before you use this product, be sure to carefully read this installation manual and the separate user's manual
 so that you can use the product correctly. Alpine Electronics bears no responsibility for problems that arise as
 a result of failure to follow the instructions in the manuals.
- This manual includes a number of symbols that are intended to help you use the product safely, to prevent harm to you and others, and to protect against damage to property. These symbols and their meanings are listed below. Make sure you fully understand these symbols before you begin reading the main text.

Explanations of Injury and Damage That May Result from Incorrect Use

<u> </u>	Ignoring the content marked by this indication and using the product incorrectly is expected to lead to death or serious injury.
<u> </u>	Ignoring the content marked by this indication and using the product incorrectly is only expected to lead to injury or property damage.



Types of Precautions

Forbidden	Indicates actions that are forbidden (must not be performed)	Mandatory	Indicates actions that are mandatory (must be performed)
Forbidden	Indicates that disassembly is forbidden.	<u> </u>	Marks content that should receive your full attention.

Warning

Do not disassemble or modify the product. Doing so could lead to an accident, fire, or electric shock.



Forbidden

Store screws and other small objects where small children cannot reach them. If one of these small objects is swallowed, consult with a doctor immediately.

When replacing fuses, be sure to use fuses with the specified current rating. Failing to do so could lead to an accident or fire.

Forbidden Mandatory

Only connect the product to a 12 VDC negative ground car. Failing to do so could lead to an accident or fire.



Before you begin wiring, remove the ground wire from the negative terminal of the battery. Failing to do so could lead to electric shock or injury.



Do not cut the insulation on a cord and take power from another device. Doing so could lead to fire or electric shock.



Do not install the product in a location where it will obstruct the driver's forward view; interfere with the operation of the steering wheel, gearshift, or the like; or pose a threat to passengers. Doing so could lead to an accident or injury.



When making a hole in the vehicle body, be careful to avoid damaging pipes, the fuel tank, electrical wiring, and the like. This kind of damage could lead to an accident or fire.



When installing and grounding the product, do not use any of the bolts or nuts of the steering wheel, brakes, fuel tank, or the like. Doing so could make the brakes stop working or lead to fire.



Do not install the product near the passenger-side airbag. Doing so could interfere with the operation of the airbag and lead to an accident or injury.



Bundle cords so that they don't interfere with driving. Wrapping cords around the steering wheel, gearshift, brake pedal, or the like, could lead to an accident or damage equipment.



♠ Caution

Connect the product properly according to the instructions. Failing to do so could lead to fire or an accident.



Forbidden

Do not sandwich cords between the seat railing or allow them to touch protrusions. Resulting breaks or shorts could lead to electric shock or fire.



Do not block vents or heat sinks. Doing so could lead to fire or damage equipment.



Use the accessories according to the instructions, and attach them securely. Failing to do so could lead to an accident or damage equipment.



Do not install the product where it may be exposed to water or in a place with high levels of humidity or dust. Doing so could lead to fire or damage equipment.

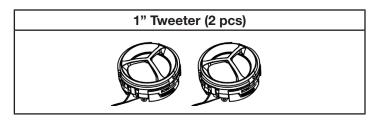


The installation and wiring of this product requires specialized skills and experience. Have the product installed and wired by an authorized Alpine dealer.

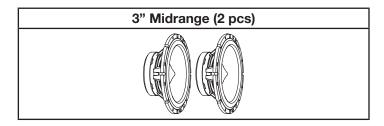


Accessory List

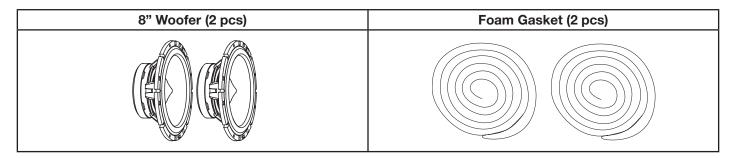
SPT-10T (Front Speaker Kit)



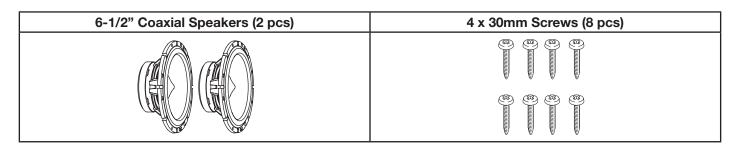
SPT-30M (Front Speaker Kit)



SPT-80W (Front Speaker Kit)



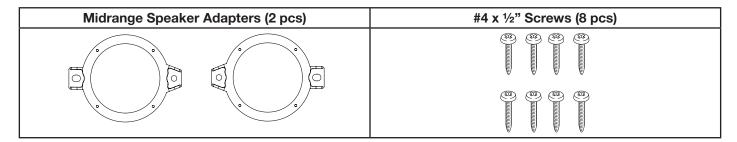
SPT-70 (Rear Speaker Kit)



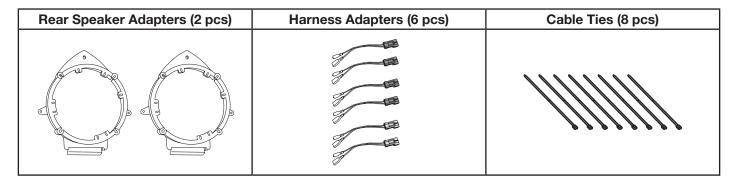
ALP-31GM-POD (Front Dash Pod Kit)

Tweeter Pod Assembly (2 pcs)	Tweeter Pod Template (1 pc)	8-16 x 3/8" Screws (10 pcs)	Washers (10 pcs)
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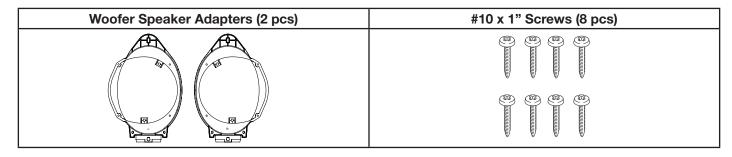
ALP-31GM-MBKT (Front Dashboard Speaker Bracket Kit)



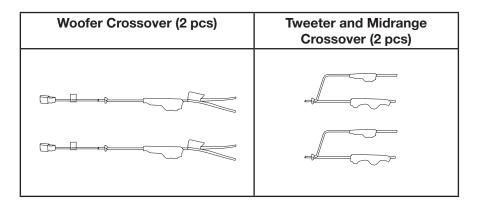
ALP-31GM-SB-SP (Speaker Wire Harness Adapters and Rear Door Speaker Bracket Kit)

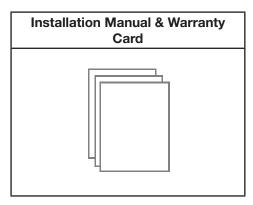


ALP-31GM-WBKT (Front Door Speaker Bracket Kit)

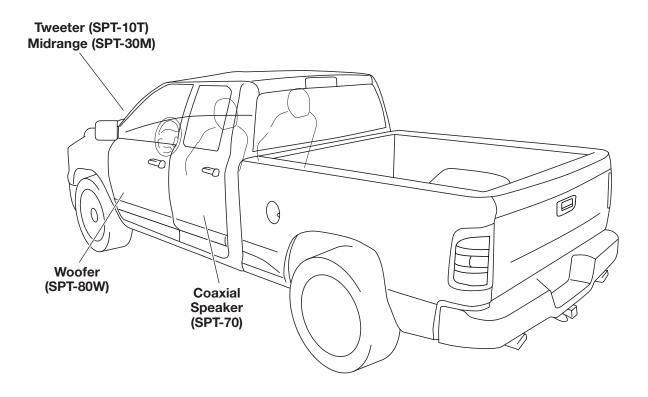


ALP-31GM-NW (3-Way Speaker Crossover GM)



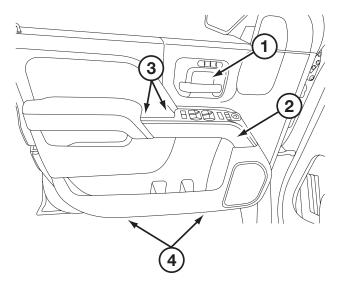


Component Locations

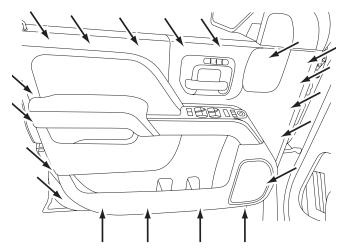


Front Door Panel Removal

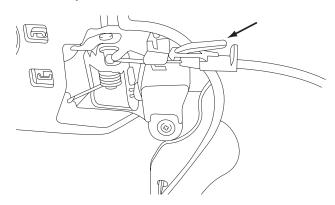
- 1 Remove the door handle cover and extract 1 x 7mm bolt.
- 2 Remove the door trim and extract 1 x 7mm bolt.
- 3 Remove the arm rest cover and extract 2 x 7mm bolts.



- 4 Extract the 2 x 7mm screws at the bottom of the door panel.
- 5 Remove the door panel using a panel removal tool. *Please note clip locations below.*



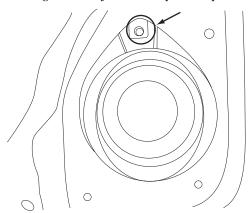
6 Press the clip and pull to release the cable ball from the door panel.



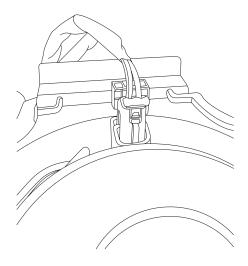
- 7 Unplug the window switch from the back of the door panel.
- 8 Remove the panel completely and set aside.

Factory Speaker Removal (Front Door)

1 Remove the factory speaker held by 1 x 7mm screw. *Retain the original screw for the new speaker replacement.*

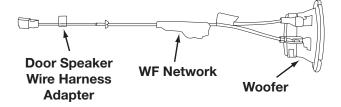


2 Unplug the speaker connector from speaker.

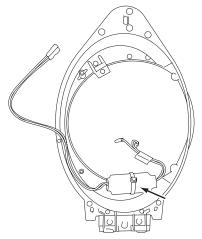


Front Speaker Installation

1 Connect the door speaker wire harness adapter to WF network.



2 Mount the WF Network to the bottom rear tab using the cable tie.

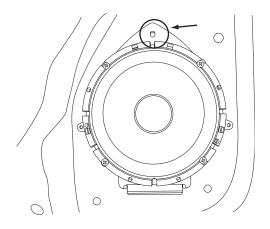


- 3 Apply foam gasket to the rear of the SPT-80W (Woofer).
- 4 Mount SPT-80W (Woofer) to the ALP-31GM-WBKT (Front Door Speaker Bracket Kit) with wire terminals at the bottom using 4 x 30mm screws.



5 Connect the network output wires to the speaker terminals. Bundle the cable up and secure using cable tie. Cut extra cable tie length.

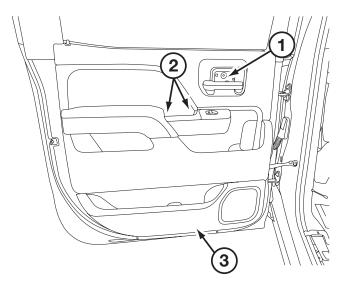
- 6 Connect the door speaker wire harness adapter to factory speaker plug.
- 7 Mount the factory speaker plug to the upper mounting tab of the bracket.
- 8 Attach the speaker to the door by inserting the bottom tab first, then use original 7mm bolt to secure.
- Ensure that the excess wires do not interfere with door or window components.



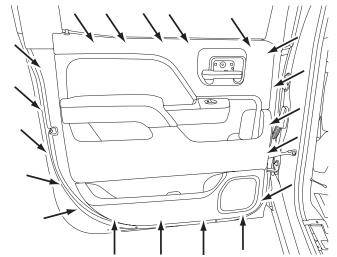
- 9 Install the door panel using the reverse procedures.
- 10 Repeat the process for the other door panel.

Rear Door Panel Removal

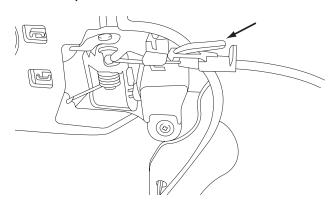
- 1 Remove the door handle cover and extract 1 x 7mm bolt.
- 2 Remove the arm rest cover and extract 2 x 7mm bolts.
- 3 Remove 1 x 7mm bolt at the bottom of the door panel.



4 Remove the door panel using a panel removal tool. *Please note clip locations below*



5 Press the clip and pull to release the cable ball from the door panel.

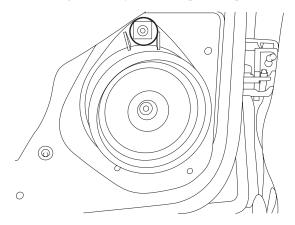


- 6 Unplug the window switch from the back of the door panel.
- 7 Remove the panel completely and set aside.

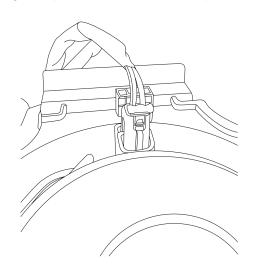
Factory Speaker Removal (Rear)

1 Remove the factory speaker held by 1 x 7mm screw.

Retain the original screw for the new speaker replacement.

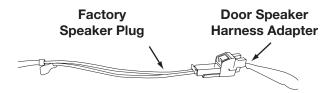


2 Unplug the speaker connector from speaker.

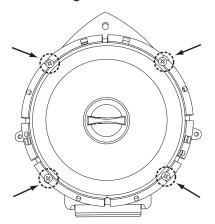


Rear Speaker Installation

1 Connect the door speaker harness adapter to the factory speaker plug.

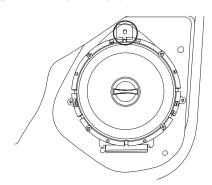


- 2 Bundle the cable up and secure using a cable tie.
- 3 Cut extra cable tie length.
- 4 Mount SPT-70 to the speaker adapter with terminals at the bottom using 4 x 30mm screws.



- 5 Attach the speaker connectors to the speaker terminals.
- 6 Attach the speaker to the door by inserting the bottom tab first, then use original 7mm bolt to secure.

Ensure you do not pinch or have the excess wire hanging inside the door panel causing binding of the window when rolled down.

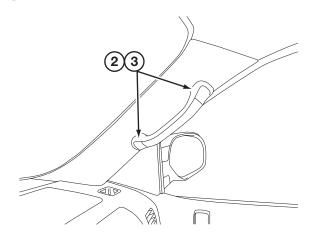


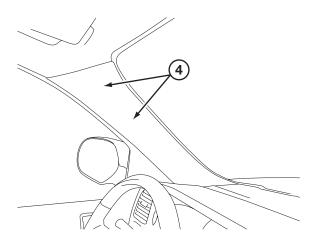
- 7 Install the door panel using the reverse procedures.
- 8 Repeat the process for the other door panel.

Factory A-Pillar Panel

1 Remove the A-Pillar cover.

There are slight differences between model year vehicles and options.

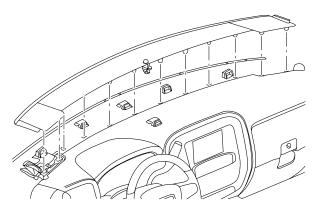




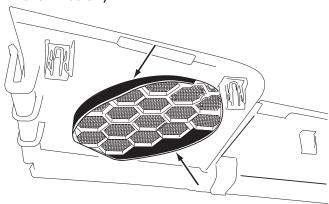
- 2 Remove the A-Pillar screw cover plate.
- 3 Extract 2 x 10mm bolts (Passenger Side).
- 4 Remove the A-Pillar. Carefully unhook the tether clip behind the A-pillar near the top. (Driver Side)
- Tether clip MUST be replaced every time the A-Pillar is removed

Upper Dashboard Removal

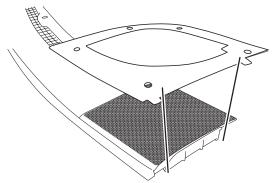
1 Use a panel removal tool to disengage the clips of the upper dashboard trim panel. Remove the panel.



- Some models may have a sensor attached. Carefully remove the sensor by twisting counterclockwise.
- 2 Cut the excess plastic underneath the panel (as shown below).

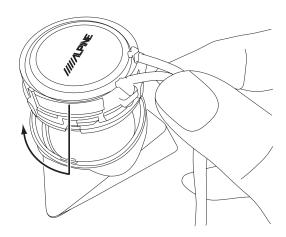


3 Align the template on the upper trim panel speaker grills.

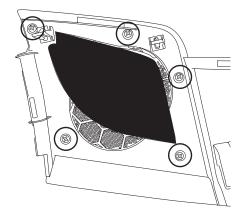


- 4 Mark the holes and area that needs to be cut out.
- 5 Using a cutting tool, cut out the template and use a 5/16 (8mm) drill to cut the holes.

6 Install the SPT-10T into the tweeter pod assembly.



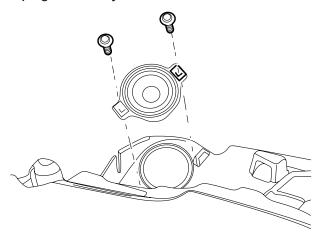
7 Align the tweeter pod with the holes and mount using (5 pcs) 8-16 x 3/8" screws and washers. Repeat Steps 4– 6 for the other side using the same template.



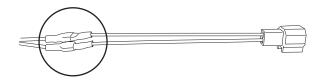
- 8 Repeat for steps for other side.
- 9 Set upper dashboard trim panel aside and continue to midrange speaker installation.

Midrange Speaker Installation

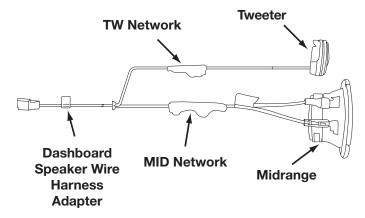
1 Remove the factory speaker 2 x 7mm screws then unplug the factory harness.



2 Connect the networks to the dashboard speaker wire harness adapter.



- 3 Carefully mount the SPT-30M to ALP-31GM-MBKT (Front Dashboard Speaker Bracket Kit) using the screws provided.
- 4 Connect the dashboard speaker wire harness adapter to the factory speaker plug.



5 Connect the MID network output wires to the SPT-30M speaker terminals. Route the midrange speaker adapters to the factory location.

- 6 Secure the MID network and wires with included zip ties. Set aside the tw network cable to connect later.
- Ensure that the network and wiring do not pinch or interfere with any factory parts.
- 7 Mount midrange bracket in the factory location using the 2 x 7mm screws.

Upper Dashboard Panel Installation

1 Connect the TW network output wires to the SPT-10T speaker leads.

Ensure you do not pinch the excess wire under the upper dashboard panel.

2 Secure the TW network and wires with included zip ties.

Ensure that the network and wiring do not pinch or interfere with any factory parts.

- 3 Install in reverse order
 - Upper Dashboard Trim Panel and sensor (if equipped)
 - A-pillars
- 4 Install the A-pillar using the reverse procedure and ensure the excess tweeter wires are not exposed.
- Tighten the handle to 6Nm (53lb/in)
- 5 Repeat the process for the other A-Pillar.
- If there are any questions about the installation process please call Alpine Technical Support 1-800-ALPINE-1 (1-800-257-4631)