LCGM52

Radio Replacement Interface
for General Motors Vehicles

Introduction and Features

The LCGM52 allows the replacement of a factory radio in select General Motors vehicles with 29-bit v2 GMLAN radios. Using this interface will retain factory features such as warning chimes, factory auxiliary input, factory reverse camera and provides a data-bus generated +12v retained accessory power output (RAP). RAP keeps the radio powered after key-off, just like the factory system. The LCGM52 also issues data commands that maintain a “healthy” system status to other vehicle systems.

Installation Steps

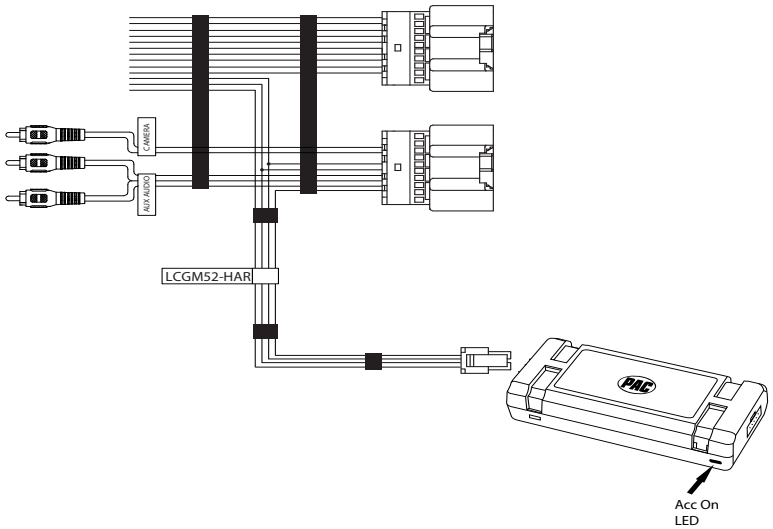
PLEASE NOTE: This Interface is intended for use in vehicles without OnStar® or Bose® or when OnStar® or Bose® does not need to be retained.

1. Wire your aftermarket radio to the LCGM52’s harness according to the wiring connections chart. The Red accessory wire will support up to 10 amps of current draw.
2. Remove the factory radio and connect both of the LCGM52’s 20-pin connectors into the vehicle’s factory harness. Mount the interface within the dash of the vehicle with double sided tape, hook and loop fastener or wire ties.
3. Connect the Red and White RCAs in the LCGM52’s harness to the aftermarket radio’s rear mounted auxiliary input.
4. Connect the Yellow RCA in the LCGM52’s harness to the aftermarket radio’s reverse camera input.
5. When retaining the reverse camera you will need to locate a reverse trigger for the radio using a Digital Multi Meter (DMM). This wire is normally found at the Body Control Module (BCM) in the Grey (Malibu) or Brown (Silverado / Sierra) connector.
6. If your vehicle is equipped with the Active Noise Cancellation system you will need to connect the remote (Blue / White) wire from the aftermarket radio to the Blue / White wire of the LCGM52’s 20-pin grey connector.
7. There are no adjustments to make, just mount your aftermarket radio and re-install your factory dash panels and you’re done!

Wiring Connections

Yellow	Battery +12v
Black	Ground
Red	Accessory +12v (10A)
Blue / White	Remote Turn On
White	Front L + input
White / Black	Front L - input
Grey	Front R + input
Grey / Black	Front R - input
Green	Rear L + input
Green / Black	Rear L - input
Purple	Rear R + input
Purple / Black	Rear R - input

Illustration / Schematic



Testing and Verification

1. Turn the ignition on. The LED on the interface will turn on and the +12v accessory wire will turn on.
2. Turn on the radio and check balance and fade.
3. Turn off vehicle and remove key. RAP will be active and keep the radio on for 10 minutes, or until the drivers door is opened.
4. The LED and radio will turn off when RAP turns off, or the drivers door is opened.

Technical Bulletin

RP5-GM52-HAR
No Reverse Camera Image

Overview

Symptom: No reverse camera image is displayed on the aftermarket radio when the vehicle is in reverse.

Cause: In some vehicles, the reverse camera image goes into the radio display prior to going into the radio.

Solution: Wire the input and output camera wires together at the radio display harness.

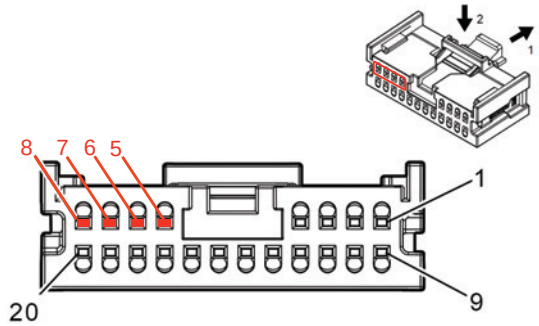
Steps to Hard Wire

1. Locate pins 5, 6, 7 and 8 at the Gray 20 pin harness on the back of the radio display (see Fig.1).
2. Cut the wires going to pins 5, 6, 7 and 8, near the connector, but leave enough length so that the wires can be reconnected if the factory radio is reinstalled.
3. The loose cut wires coming from the connector will not be used. The loose cut wires that continue into the harness will need to be connected as follows (see Fig.2):

   Connect Pin 5 to Pin 7.
   Connect Pin 6 to Pin 8.
4. Connect the Reverse Camera output connector from the RP5-GM52-HAR to the Reverse Camera input on the aftermarket radio.

Fig.1

Gray 20 Pin Radio Display
Connector Viewed From Pin Side



Pin 5 - Camera + from Camera
Pin 6 - Camera - from Camera

Pin 7 - Camera + to RP5-GM52-HAR
Pin 8 - Camera - to RP5-GM52-HAR

Fig.2

Gray 20 Pin Radio Display
Connector Viewed From Top