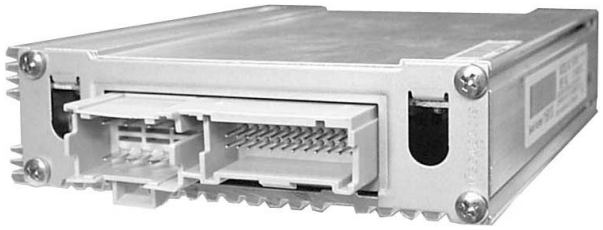
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Service Manual

AUTOMOTIVE ELECTRONICS



GM
CY-BG8013ZC

6-channels Power Amplifier

GM PART No. : 15762536
VEHICLE : Yukon, Tahoe, Suburban
DESTINATION : US /Mexico
PRODUCED AFTER: Jul., 1999

Specifications*

General	
Power Supply	DC 12V (11V - 16V) Test Voltage 13.2V Negative ground
Current Consumption	Less than 2A
Maximum Output Power	20W × 5ch (FL, FR, RL, RR, AMB) (at 4Ω) 26W × 1ch (SUB) (at 4Ω)
Output Impedance	4Ω (FL, FR, RL, RR, AMB) 2Ω (SUB)
Source Impedance	600Ω or less
Input Level	0dBV (1Vrms)
THD	0.5% max. (FL, FR, RL, RR, AMB) 1.5% max. (SUB)
Output Noise	-67dBV max. (each channel)
Channel Separation	55dB min. (at 500Hz)
Dimensions** (W×H×D)	167.4 × 140 × 39.1 (mm) (not including connector protrusion)
Weight**	1.0kg

* Specifications and the design are subject to possible modification without notice due to improvements.

** Dimensions and Weight shown are approximate.

- Above specifications comply with EIA standards.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Panasonic®

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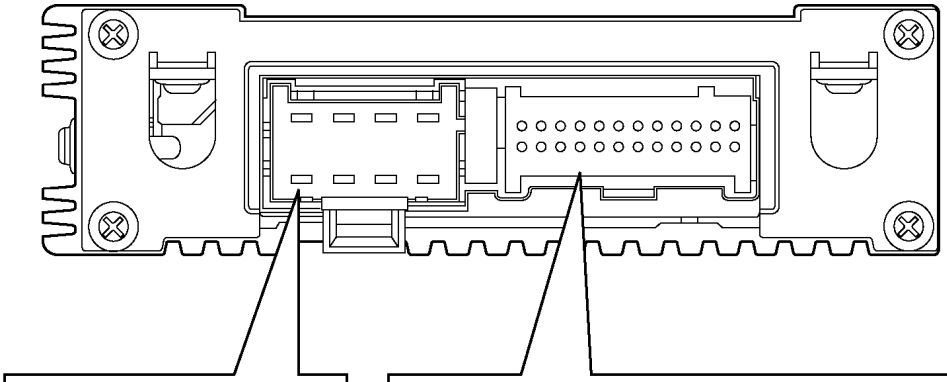
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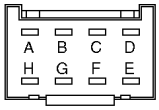
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1 FEATURES

- 6 channels of amplification: LF, RF, LR, RR, AMB (Ambience) and SUB (Subwoofer).
- 3 bands of fixed equalization for each front channel.
  2 bands of fixed equalization for each rear channel.
  LPF for Subwoofer.
- The amplifier shall untilize AMP CONTROL to invoke amplifier function as follows:
  For AMP CONTROL signal from 0 Vdc to 1.0 Vdc, amplifier shall be off.
  For AMP CONTROL signal from 2.5 Vdc to voltage BATT12V terminal, amplifier shall be on.

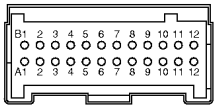
2 REAR VIEW AND CONNECTORS





P1 (a) 8P CONNECTOR

A. Subwoofer (–)
B. Subwoofer (+)
C. No Connection
D. No Connection
E. BATT +12V
F. Ground
G. Ambience (+)
H. Ambience (–)



P1 (b) 24P CONNECTOR

A1.	Front SP, Rch (–)	B1.	Front SP, Lch (–)
A2.	Front SP, Rch (+)	B2.	Front SP, Lch (+)
A3.	Rear SP, Rch (–)	B3.	Rear SP, Lch (–)
A4.	Rear SP, Rch (+)	B4.	Rear SP, Lch (+)
A5.	AMP CONTROL	B5.	No Connection
A6.	AMP SENSE	B6.	No Connection
A7.	No Connection	B7.	No Connection
A8.	No Connection	B8.	No Connection
A9.	Front Rch In (–)	B9.	Front Lch In (–)
A10.	Front Rch In (+)	B10.	Front Lch In (+)
A11.	Rear Rch In (–)	B11.	Rear Lch In (–)
A12.	Rear Rch In (+)	B12.	Rear Lch In (+)