



MTG, Inc.
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Medford NJ 08055
(609) 975-6056

Mastrcon
ENCORE ASSEMBLY
"N" SERIES

OPERATION AND INSTALLATION GUIDE

Mastrcon

VIN Number

Final system checklist and warranty activation form

MASTRCON SYSTEM MODEL NUMBER
(LOCATED ON OUTSIDE OF RELAY BOARD FRAME)

MASTRCON SYSTEM SERIAL NUMBER
(LOCATED ON OUTSIDE OF RELAY BOARD FRAME)

COACH/BUILDER

VEHICLE MAKE AND STRETCH MODEL

SALESPERSON

QC REP

VEHICLE MODEL YEAR

DATE OF SALE

PURCHASER COMPANY NAME

PURCHASER PHONE NUMBER

STREET ADDRESS

CITY/STATE/ZIP

Driver Control	QC	OK	REWORK
Battery Select			
Intercom volume/ clarity			
Reading Lights			
Moon Roof			
Solid Panel			
Glass Panel			
Lights			
Radio Disable			
MR Disable			
PT Disable			
VCR Disable			
Auto Temp Disable			
AC bypass			
Control Appearance/ Accessibility			

Encore Module	QC	OK	REWORK
Override functions explained			
Status Display explained			
Fuse replacement/ locations explained			
Builder installed options explained			
System operation manual provided			
Module appearance/ Accessibility			

Auxiliary Module	QC	OK	REWORK
Status Display explained			
Fuse replacement/ locations explained			
Module appearance/ Accessibility			

Passenger Control	QC	OK	REWORK
Fan Speed/ Auto Temp explained			
Decor			
Intercom volume/ clarity			
Floor			
Door Locks			
Dome Lights			
Console Lights			
Mood Lights			
Control appearance/ Accessibility			

Auxiliary Passenger Control	QC	OK	REWORK
Aux 1			
Aux 2			
Solid Panel			
Recliner			
Glass Panel			
Aux 3			
Aux 4			
Aux 5			
Aux 6			
TV Console			
Bar Console			
Moon Roof			
Aux 7			
Aux 8			
Control appearance/ Accessibility			

Additional Comments:

Note: This warranty form must be completed and faxed to Mastrcon at (609) 975-6055 to activate your warranty. Should a suspected electrical problem occur. The vehicle owner should contact Mastrcon at (609) 975-6056. Please reference the system model number and the VIN when calling for warranty assistance.

The purchaser has read and fully understands the Mastrcon lifetime warranty guarantee as outlined in the supplied manual and accepts the vehicle for delivery. All electronic functions are fully operational as verified except where noted.

Customer Signature _____ Customer Printed Name _____ Acceptance Date _____

Mastrcon Encore System

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Mastrcon Control System

SYSTEM OVERVIEW

The Mastrcon control system provides the Limousine Industry with a quality add on electronic control system that can readily conform to the needs of your production requirements. Each Mastrcon control assembly consist of only three main components; a Passenger Control, a Driver Control, and the Encore Module. An Auxiliary system may be used with the Encore control system for the left side passenger control that consists of a controller and the auxiliary relay board. The controllers may be configured in a variety of different formats allowing for variation in your product line while still maintaining consistency in your production processes.

The Controllers are available in different formats called "SERIES". While the Controller Series may be reconfigured, the Elite Module will always remain consistent and can be readily comprehended for system wiring requirements.

Each Mastrcon controller assembly is manufactured using high quality CNC surface etch technology. The polycarbonate panel overlays and 16 gauge steel support frames are laser cut to ensure perfect alignment and years of trouble free use. Each component used in manufacture has been considered for its production maturity and successful current applications in hostile automotive environments. With an ongoing commitment to QC (SPC), we have the ability to track and resolve any production misalignments. Your inputs and suggestions will be greatly appreciated.

Each Mastrcon Controller assembly employs circuit designs that are de-rated for use in a wide temperature range and rugged shock applications. All switch and potentiometer assemblies are hermetically sealed for protection from contaminants.

The general specifications for input/output current for each interconnect can be taken from the Elite Module pin out instructions. Please consult the factory for any special applications that may exceed the published maximum current capabilities of each interconnect.

Within our design parameters, the general unlisted component ratings are as follows:

All push button switch assemblies:
Momentary- 1,500,000 cycles
Alternate- 500,000 cycles

All Relay Modules:
DPDT- 40A @ 185 degrees Fahrenheit

All LED and back lighting display indicators:
De-rated to 150,000 hours at 125 degrees Fahrenheit

Mastrcon Limited Product Warranty

MTG Incorporated, ("MTG") warrants to the original purchaser that each new Mastrcon Encore Assembly is free from defects in material and workmanship and agrees to repair or replace under this warranty any defective product for as long as the original purchaser owns the vehicle.

To activate the warranty, the warranty card must be completed and returned to MTG within 45 days from the date of purchase.

If your Mastrcon Encore Assembly should fail during the limited warranty period, return it, freight prepaid, to MTG. Returned speaker assemblies should be packaged so that the cones will not be damaged during shipment. MTG will not replace returned components or assemblies that have been damaged due to negligent shipping practices on the part of the end user. The product will be repaired or replaced at the sole discretion of MTG and will be returned to the customer via UPS ground within the continental United States. If UPS ground shipping is not acceptable we will return ship C.O.D., cash, using the customers shipper of choice less UPS ground charges. Arrangements at the end users expense will be made for warranty repairs shipped outside of the continental United States.

This warranty does not cover damage or liability caused by misuse, unauthorized modifications or repairs, fire, water damage or acts of God. Additionally, this warranty does not cover the use of this product for which it was not specifically intended. Obvious misuse such as burnt or vaporized circuit traces will under no circumstances be covered under this warranty.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

The use of this product is at the risk of the end user, therefore, no claims for consequential or other damages will be allowed, and there are no other warranties except those expressly stipulated herein.

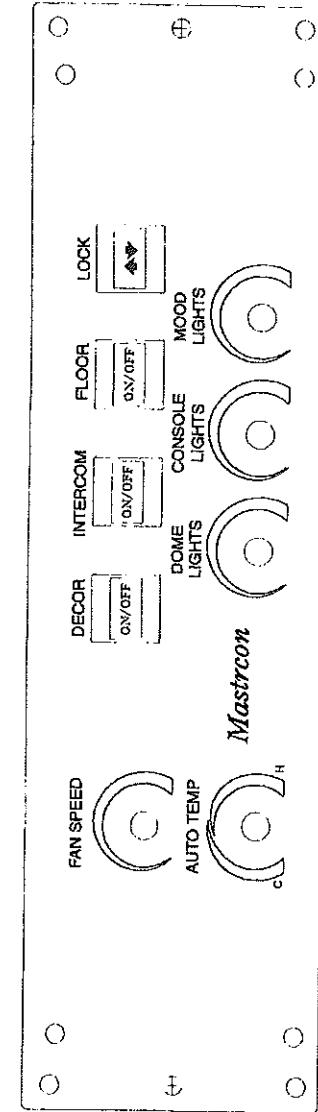
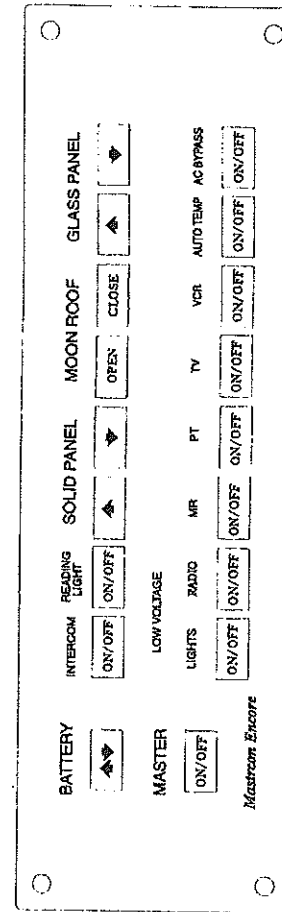
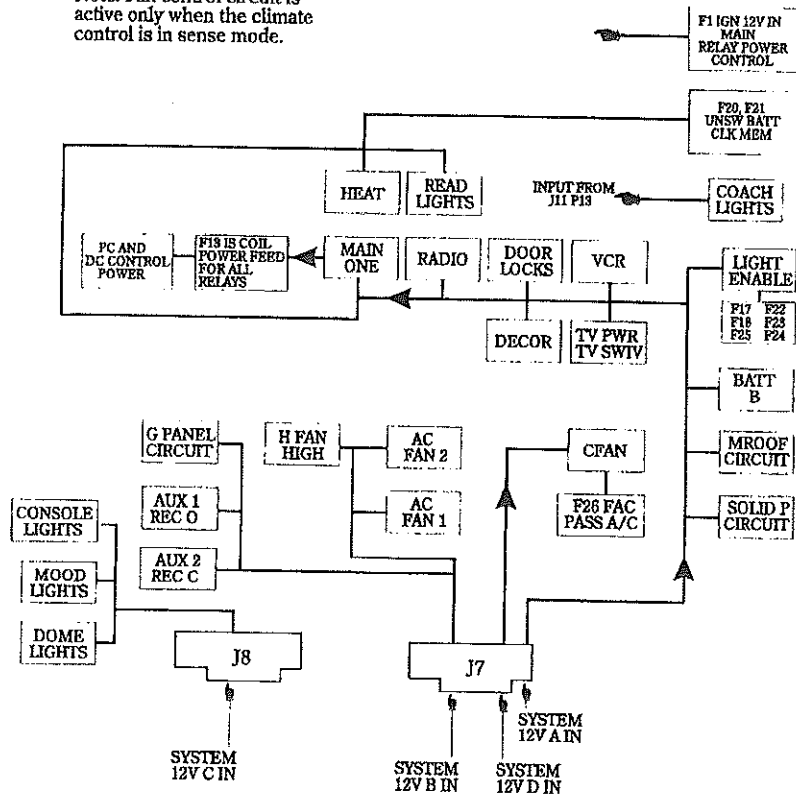
There is no fee for transfer of warranty within one year of new vehicle purchase and warranty card receipt. After the one year period there is a \$100.00 charge for transfer of warranty to the new vehicle owner. Please contact MTG for further details.

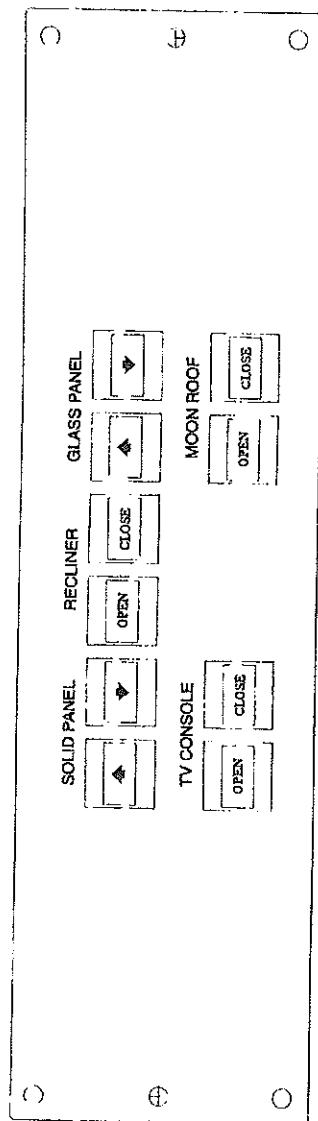
MTG's policy is to continuously improve its products. Therefore, MTG reserves the right to change, modify, or discontinue models, designs, specifications, and accessories of all products at any time without notice or obligation to any purchaser.

Mastrcon

ENCORE MODULE PRIMARY INPUT POWER DISTRIBUTION

Note: Fan control circuit is active only when the climate control is in sense mode.





MASTRCON "O" SERIES AUXILIARY CONTROLLER
(MAXIMUM CONFIGURATION WITH ENCORE MODULE)

MASTRCON/MTG Inc. C2006

Mastrcon

FUSE OR PLUG OUTPUT REASSIGNMENTS

For your convenience, any fuse or plug output that were rerouted by your Coach Builder to accommodate a special application are listed on this page. These changes have priority over the print of the Encore Module.

Mastrcon Troubleshooting Guide

At this point we have just troubleshot half of the system and we haven't even taken anything apart yet. I like this.

If a STATUS light does not light for the function you want, check the cabling between that controller and the Encore Module to make sure it is not damaged and remove and reseal the cable connectors. If it still does not work you may assume that the controller or interconnect cable is defective and contact Mastrcon.

If all of the STATUS INDICATORS light, please go to the next step.

TROUBLESHOOTING THE ENCORE MODULE AND CONTINUOUS OUTPUT FUNCTIONS

Please refer to the Mastrcon Encore Module print and the Encore Module Primary Power Distribution print.

When troubleshooting a switched function check the fuse corresponding to the relay and listen for relay actuation. If the Fuse is blown find out why before replacement (DANGER OF FIRE HAZARD. NEVER REPLACE A FUSE WITH A HIGHER AMP RATING. USE WHAT IS SPECIFIED). If the Fuse is good and the relay activates, check the pin output on the board to see if 12v (or ground) is present when the switch for that function is pressed. If 12v (or ground) is present find the wiring harness print for your vehicle and go from there. If 12v (or ground) is not present you may assume that the Encore Module is defective and contact Mastrcon.

When troubleshooting a continuous output function check the fuse corresponding to the pin output. If the Fuse is blown find out why before replacement (DANGER OF FIRE HAZARD. NEVER REPLACE A FUSE WITH A HIGHER AMP RATING. USE WHAT IS SPECIFIED). If the Fuse is good check the pin output on the board to see if 12v (or ground) is present. If 12v (or ground) is present find the wiring harness print for your vehicle and go from there. If 12v (or ground) is not present you may assume that the Encore Module is defective and contact Mastrcon.

Mastrcon

Driver Control

POWER SWITCH

Provides activation of system power relay when depressed. Tied to the ignition circuit, the indicator is back lit yellow so that it may be located when the vehicle is running but the Mastrcon system is deactivated. Yellow back lit color changes to red when the switch is depressed.

LIGHTS

Disables the passenger lighting control circuits. Yellow back lighting changes to Red when the switch is depressed.

RADIO

Disables passenger Radio power. Yellow back lighting changes to Red when the switch is depressed.

MR

Disables the passengers Moon Roof controls. Yellow back lighting changes to Red when the switch is depressed.

PT

Disables the passengers partition controls. Yellow back lighting changes to Red when the switch is depressed.

TV

Disables the passengers TV power. Yellow back lighting changes to Red when the switch is depressed.

VCR

Disables the passengers VCR power. Yellow back lighting changes to Red when the switch is depressed.

AUTO TEMP

Disables the passengers AUTO TEMP control. Yellow back lighting changes to Red when the switch is depressed.

AC BYPASS

Locks the AC circuit and the fan control for the passengers compartment to high. Yellow back lighting changes to Red when the switch is depressed.

Mastrcon Driver Control

BATTERY SELECT SWITCH

Provides control of the Battery Select Relay. To enable battery selection from a dead start condition, the control system is tied to the ignition circuit and may be engaged with the Mastrcon system deactivated.

INTERCOM

Activates full duplex hands-free intercom to passenger. Yellow back lighting changes to red when the switch is depressed.

READING LIGHT

Activates the Driver reading light. Yellow back lighting changes to Red when the switch is depressed.

SOLID PANEL

Activates the Solid Panel up or down when pushed in the direction indicated. When either switch is activated, the following sequence of events will occur: The Driver control Solid Panel display will change from yellow back lighting to red, and the associated relays on the Encore Module will be activated.

MOON ROOF

Activates the Moon Roof open or close when pushed in the direction indicated. When either switch is activated, the following sequence of events will occur: The Driver control Moon Roof display will change from yellow back lighting to red, and the associated relays on the Encore Module will be activated.

GLASS PANEL

Activates the Glass Panel up or Down when pushed in the direction indicated. When either switch is activated, the following sequence of events will occur: The Driver control Glass Panel display will change from yellow back lighting to red, and the associated relays on the Encore Module will be activated.

Mastrcon Troubleshooting Guide

After Reading the operational guide in the front of this manual and you decide that there is a problem, first conclude if the problem is a switched function of one of the controller assemblies (such as Solid Panel, Aux 1, etc.) or if it is a continuous output function of the Encore Module (such as VCR, Vanity Lights, etc.).

Due to the fact that some Coach builders will use outside vendors or will manufacture their own wiring harness for connection from the Encore Module to the rest of the vehicle, this troubleshooting guide only concerns itself with the Mastrcon system. Mastrcon supplies all of the interconnecting cables between the controllers and the Encore Module (see Mastrcon supplied cable system interconnect diagram). If after reading this guide you discover that the problem is in the wiring harness itself. You should refer to the wiring diagram that is generally supplied with the paper work of each vehicle. If ever it becomes confusing, you can always look at the pin outputs of the Encore Module (on the last page of this manual) and find what wire color or number goes to the function that you are looking for.

STATUS

The purpose of the Status display is to provide for a continuous visual indication of the Mastrcon system. The 26 display indicators coincide with the Mastrcon Controller assembly inputs to the Encore Module and can immediately tell the operator of the controller and cable conditions. Should maintenance ever be required, the Status display enables the mechanic to immediately isolate the Mastrcon controllers from the rest of the vehicle and effectively cuts system troubleshooting in half. For definition of each Status display please see the chart titled STATUS DISPLAY INDICATOR LOCATIONS.

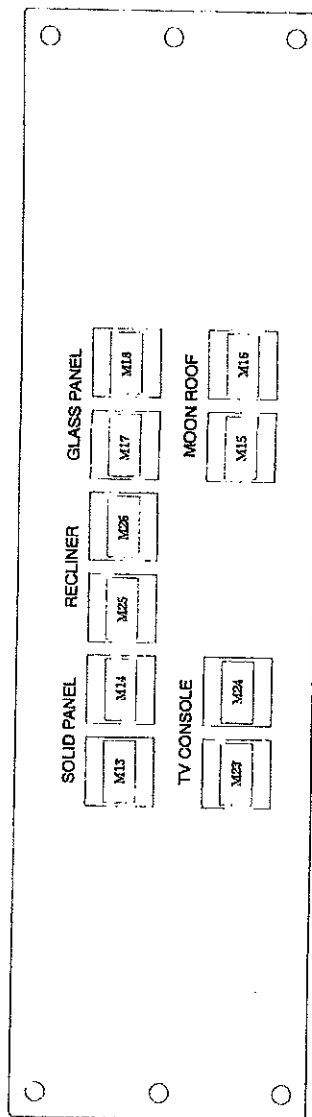
SWITCHED FUNCTIONS

If you decide there is a switched function problem, go sit in the Drivers seat and observe the STATUS Display on the Encore Module. Refer to chart titled STATUS DISPLAY INDICATOR LOCATIONS.

With the Mastrcon System off and the vehicle ignition on you should have Ignition 12v to the Encore Module (as evidenced by the word POWER being backlit on the Driver control). If you don't, check F1.

Next press the POWER button and turn the system on (STATUS 1 should light). The STATUS monitor indicates what functions are active on the Encore Module and will indicate controller switch and cabling conditions. If the function you activate is a shared function between controllers (like Glass Panel, Moon Roof, etc.), the STATUS monitor will check all cabling from front to rear of the vehicle for that function when the switch is depressed, that's why for some functions two STATUS indicators will light. Now depress the function that you are troubleshooting. The switch number will correspond to the numbers on the STATUS DISPLAY INDICATOR chart.

STATUS DISPLAY INDICATOR LOCATIONS



Note: When an LED on the Status Display Indicator is Lit. It indicates that the corresponding switch or relay function is active on the Encore Module.

"M" Prefix designates that the status location is on the Main Relay Board.

Mastrom/ MTG Inc. C2006
ENCORE STATUS

Mastron Right side Passenger Control

AUTO TEMP

When the AUTO TEMP is engaged the controller automatically activates the A/C and condenser fan relays when the Climate control is rotated between the cold and low comfort zone (approximately 45 to 67 degrees F) or when the temperature rises above high comfort. The controller will automatically activate the Heat Relay when the Climate control is rotated between the hot and high comfort zone (approximately 75 to 100 degrees F) or when the temperature falls below low comfort (Center position of the TEMP control is approximately 71 degrees F).

When the Climate Control is in the centered position, the outer limits of the comfort zone are always 70 to 72 degrees F.

FAN SPEED/ FAN

Three speed Digital fan control (N SERIES). The fans will be active only when the climate control is in the sense mode.

DOME LIGHTS, CONSOLE LIGHTS, MOOD LIGHTS

Dimmer Circuits provide steady electronic control of the associated light location.

DECOR

Activates the Decor circuit.

INTERCOM

Activates momentary Intercom to driver.

FLOOR LIGHTS

Activates the passenger Floor light. The Floor light circuit will activate when the rear doors are opened.

LOCK

Provides power to the lock control circuit when engaged. Upon Mastrom system power up, the lock circuit will initiate in the up position and unlock all locked doors (if the switch is disengaged).

Mastrcon Left Side Auxiliary Passenger Control

The auxiliary control allows for a vast array of electronic options to be added to a vehicle. Not all functions may be present in your control.

AUX 5

Activates the AUX 5 circuit when the switch is depressed.

AUX 6

Activates the AUX 6 circuit when the switch is depressed.

TV CONSOLE

Activates the TV SWIVEL open or closed when the switches are depressed.

BAR CONSOLE

Activates the BAR CONSOLE open or closed when the switches are depressed.

MOON ROOF

Activates the Moon Roof open or close when pushed in the direction indicated. When either switch is activated, the following sequence of events will occur: The Moon Roof display on the Driver control will change to orange, the Passenger control and the associated relays on the Encore Module will be activated.

AUX 7

Activates the AUX 7 circuit when the switch is depressed.

AUX 8

Activates the AUX 8 circuit when the switch is depressed.

AUX 1

Activates the AUX 1 circuit when the switch is depressed.

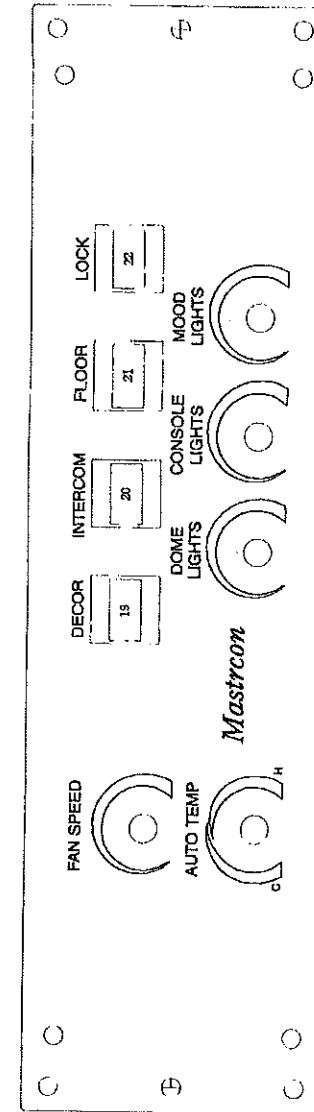
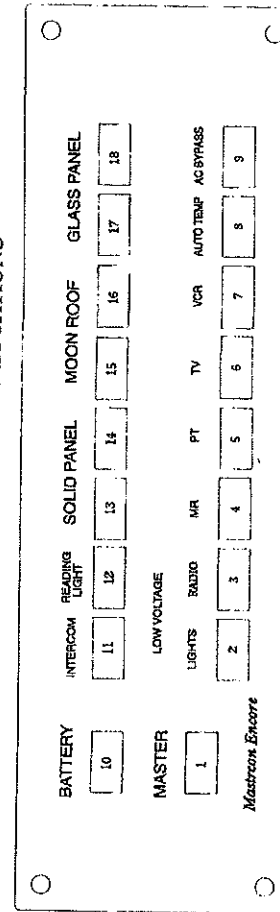
AUX 2

Activates the AUX 2 circuit when the switch is depressed.

SOLID PANEL

Activates the Solid Panel up or down when pushed in the direction indicated. When either switch is activated, the following sequence of events will occur: The Solid Panel display on the Driver control will change to orange and the associated relays on the Encore Module will be activated.

STATUS DISPLAY INDICATOR LOCATIONS



Note: When an LED on the Status Display Indicator is Lit it indicates that the corresponding switch or relay function is active on the Encore Module.

Mastrcon Installation Guide

DOVE, CONSOLE AND MOOD LIGHTS

It is important to realize that dimmer circuits operate by variably controlling the Ground to each light assembly. Therefore, at no time, nor in any place can your lights be grounded in the vehicle. You have two light wires, one will go to the 12V output on the Encore Module and the other will go to the Control Ground side.

MAXIMUM CURRENT CAPABILITIES

Each output on the Encore Module is protected by a Fuse with the same name (i.e. J11 P1 Vanity Lights 12v out is protected by F18 Vanity Lights). The maximum current that each circuit can handle is what the Fuse that protects it is rated at (in this case the Vanity light output circuit can handle 5 amps). NEVER EXCEED THIS RATING, NEVER CHANGE THE FUSE TO A HIGHER RATING. For safety purposes, please do not assume that you can refuse a circuit to whatever value does not blow. Remember, it could be your child in the car when it catches fire. If you follow these simple rules this module will run for years at 150 degrees Fahrenheit and neither one of us will ever have to service it. You can make us both look real good. Besides, for warranty purposes we ALWAYS can tell when you put a higher amp fuse in a circuit.

As a general rule, if a circuit is used in continuous duty (such as a light circuit), try not to let the current exceed 80% of what the Fuse is rated for (in the case of Vanity lamps that would be 4 amps). Unless you just like your customers to have to replace Fuses once a month.

Mastrcon

Left Side Auxiliary Passenger Control

RECLINER

Activates the RECLINER open or closed when the switches are depressed.

GLASS PANEL

Activates the Glass Panel up or Down when pushed in the direction indicated. When either switch is activated, the following sequence of events will occur: The Glass Panel display on the Driver control will change to orange and the associated relays on the Encore Module will be activated.

AUX 3

Activates the AUX 3 circuit when the switch is depressed.

AUX 4

Activates the AUX 4 circuit when the switch is depressed.

Mastrcon Encore Module

The Encore Module is the central controller of the Mastrcon System. Capable of handling 31 relays with 67 switchable output circuits, it can more than handle your add on power distribution requirements. All electronic control functions are located on one module assembly. No more searching through the vehicle looking for an external module.

For plug output configurations, fuse locations/ functions and circuit current handling specifications, please refer to the Encore Module print overlay on the last page of this manual.

AUXILIARY CONTROL MODULE

Used in conjunction with the Auxiliary Passenger Control, the Auxiliary Control Module allows the optional features of the Auxiliary Passenger Control to be utilized. The module is capable of handling 11 relays with 12 switchable output circuits

EMERGENCY OVERRIDE CONTROLS

Should one of the controllers or interconnect fail, the following switches on the Encore Module may be activated until the unit can be serviced.

MROOF CLOSE

Overrides both controller Moon Roof close and disable functions and closes the Moon Roof.

SP DOWN

Overrides both controller Solid Panel down and disable functions and lowers the Solid Panel.

Mastrcon Installation Guide

ENCORE MODULE INSTALLATION

The Encore Module should be mounted as close to the front of the vehicle as possible. Please allow for a two inch clearance from the sides of the module and at least five inches of overhead clearance (measurement taken from the top of a relay). The Encore Module will generate heat and the dead air space is necessary for proper ventilation. Ensure that the module is located in a reasonably secure area that will not be used for storage but may still be accessed for maintenance purposes. The Encore Module is one of the more important pieces of equipment in the vehicle. It needs to be accommodated. It is recommended that the Encore Module be mounted in the vehicle before cutting in your new wiring harness.

DRIVER CONTROL

Please use the dimensional templates provided for the mounting of the DC. The controller is designed to be placed behind molding. It should be mounted where it can easily be accessed by the driver but where it will never be in direct sunlight. The DC requires .500 inch mounting clearance from its depth for the speaker plug and J5 input.

PASSENGER CONTROL

Please use the dimensional templates provided for the mounting of the PC. The controller is designed to be placed behind molding. It should be mounted where it can easily be accessed by the Passenger but where it will never be in direct sunlight. The PC requires .500 inch mounting clearance from its depth for the speaker plug and J4 input.

INTERCOM SPEAKER PLACEMENT

The Intercom is full duplex and employs electret microphones for voice response. This allows for a tighter system "sound" that is reasonably directional (approximately 90 degrees from center axis). The Intercom system will perform best when the speakers are placed at least 4 feet away from the controller module. Nonconductive insulation should be placed behind the speakers and controllers to interrupt the feedback path that may be present along the roof or chassis body. The speakers may be mounted behind fabric or grills, BUT MUST NOT BE MOUNTED BEHIND INSULATION. Best results for Intercom volume adjustments will be achieved after the insulation and carpeting are installed in the vehicle.

If the system "rings" or feedback is present even at low volume, ensure that enough insulation is installed behind the front and rear controllers and speakers to interrupt the audio paths.

Mastrcon
Encore System
 System Cable Interconnect

Mastrcon Options Page

CABLE LENGTHS

Standard Mastrcon supplied system cables are 11 feet from the Driver Control to the Encore Module and 22 feet from the Encore Module to the Passenger Control. This will generally suffice for a vehicle up to 120". For 172" vehicles a set of 33 foot control cables can be supplied. Choose Option "XL".

BATTERY SELECT

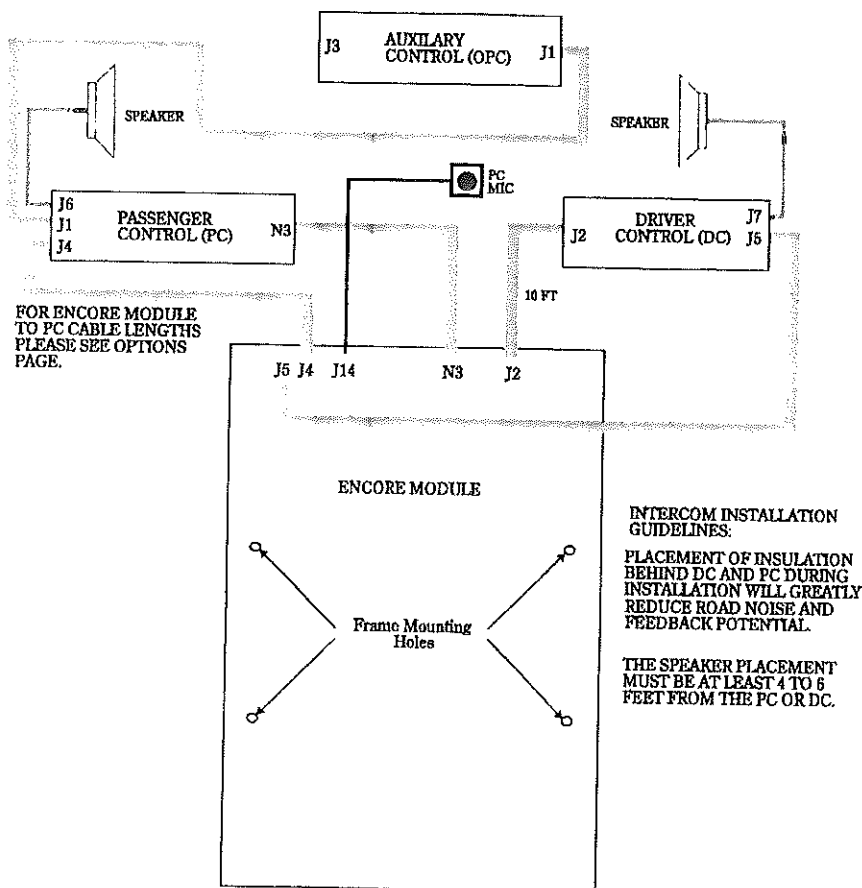
Standard Battery Select operation is for a momentary ground to be applied to an intermittent duty solenoid for selection of Battery "B". This may be modified to where a continuous ground is applied to a constant duty solenoid (like the application of adding another battery in parallel or enabling a completely separate battery circuit). Choose Option "B".

FAN CONTROL

Choose an "M" Series controller for three speed fan control or Choose an "N" Series controller for variable digital fan control.

MASTRCON OPTION CODING SCHEME

To identify the installed options used in your system, look at the model number on the Command Module. All options are listed after the letter "M". The second letter indicates the controller series.



Connector

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2. Partition Main Harness
3. P/S Center Panel Harness
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5. D/S Center Panel Harness
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7. Heat and A/C Partition Harness
- Underhood Harness
- Factory Tie-In Harness
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11. RGB Lights Harness
12. 5th Door Car Harness
13. 5th Door Open Harness
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18. C-5, C-6, C-7 and C-8
19. C-9, C-10 and C-11
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21. C-14 and C-15
22. C-16 and C-17
23. C-18, C-19 and C-20
24. C-21 and C-22
25. C-23, C-24 and C-25
26. C-26, C-27, C-28 and C-29
27. C-30, C-31 and C-32
28. C-33 and C-34
29. C-35
30. C-36, C-37 and C-38

POWER RELAY 2	PART UP	PART DOWN	POWER RELAY 3	VIDEO	VIDEO DISABLE	RADIO DISABLE	POWER RELAY 4
---------------	---------	-----------	---------------	-------	---------------	---------------	---------------

FLOOR
DOOR OVERRIDE
STAR
ACCENT
POWER RELAY 1
COACH
DUAL ALT
DUAL ALT

VIDEO FUSE 10A	BLOWER 1 FUSE 25A	FRONT PANEL FUSE 15A
RADIO FUSE 15A	HEAT FUSE 15A	REAR PANEL FUSE 10A
SUBWOOFER FUSE 20A	BLOWER POT FUSE 1A	AUX 1 FUSE 15A
RADIO CON+ FUSE 15A	COACH CON+ FUSE 5A	BLOWER 2 FUSE 25A

CONSOLE FUSE 10A	STAR FUSE 10A	PARTITION FUSE 15A CB
CEILING FUSE 10A	ACCENT FUSE 15A	INTERCOM FUSE 3A
MOOD FUSE 10A	ICEBUCKET FUSE 5A	POWERPOINT FUSE 15A
FLOOR FUSE 10A	WARRANTY/NO SMOKE FUSE 5A	COND FAN FUSE 25A

AC POWER 1
CON FAN
HEAT
AC BYPASS 1
AC BYPASS 2
AC POWER 2
BLOWER

WARNING

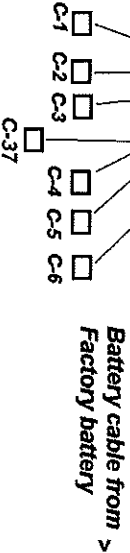
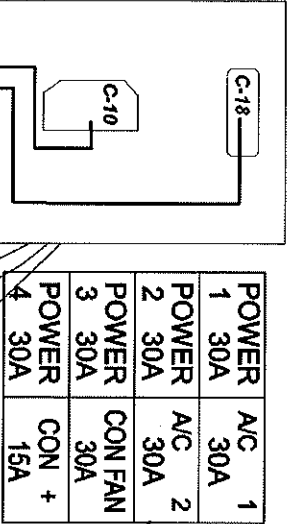
USE RECOMMENDED FUSE VALUES ONLY!

DABRYAN COACH IS NOT RESPONSIBLE FOR DAMAGE THAT OCCURS FROM OVER SIZED FUSES.

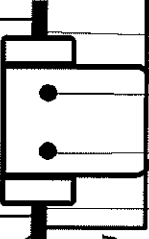
Dabryan Coach
1-800-842-5391

DIMMER

MAIN POWER



SOLENOID

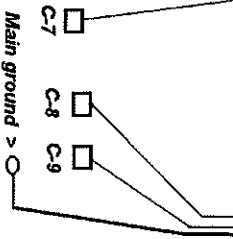


This terminal for additional tap-ins

Battery cable from Secondary alternator

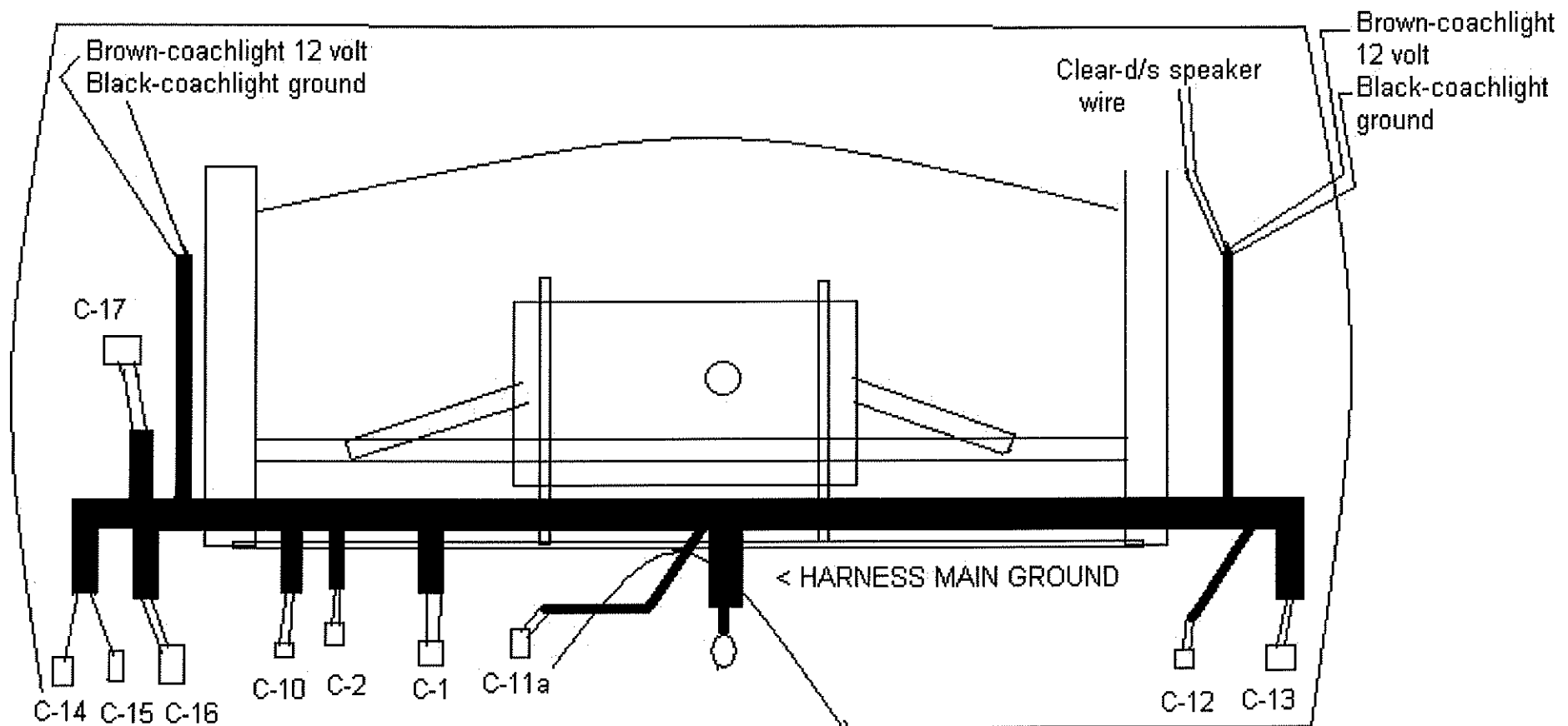
Battery cable from Secondary battery

INTERCOM



Partition Main Harness

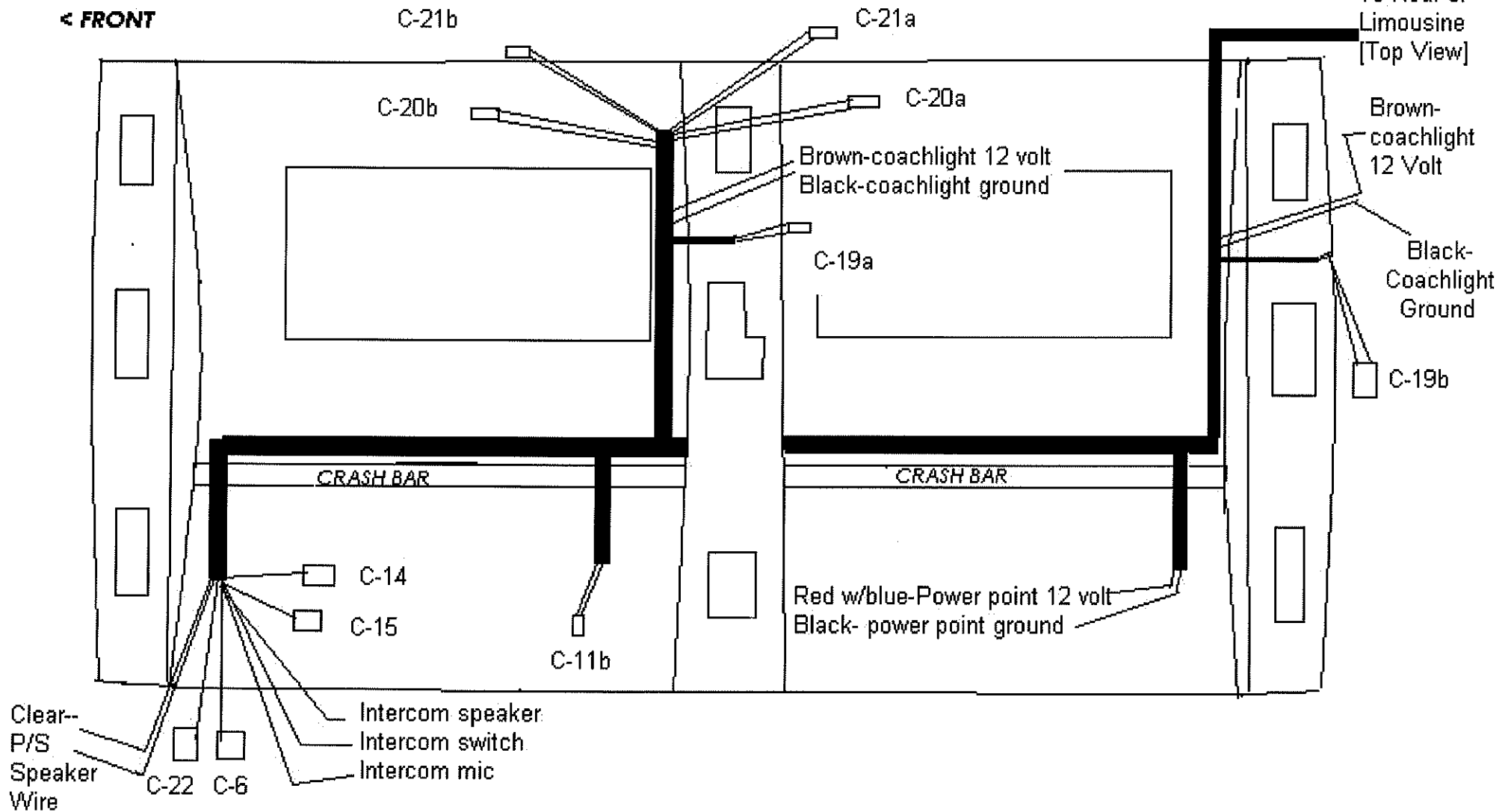
2



P/S CENTER PANEL

< FRONT

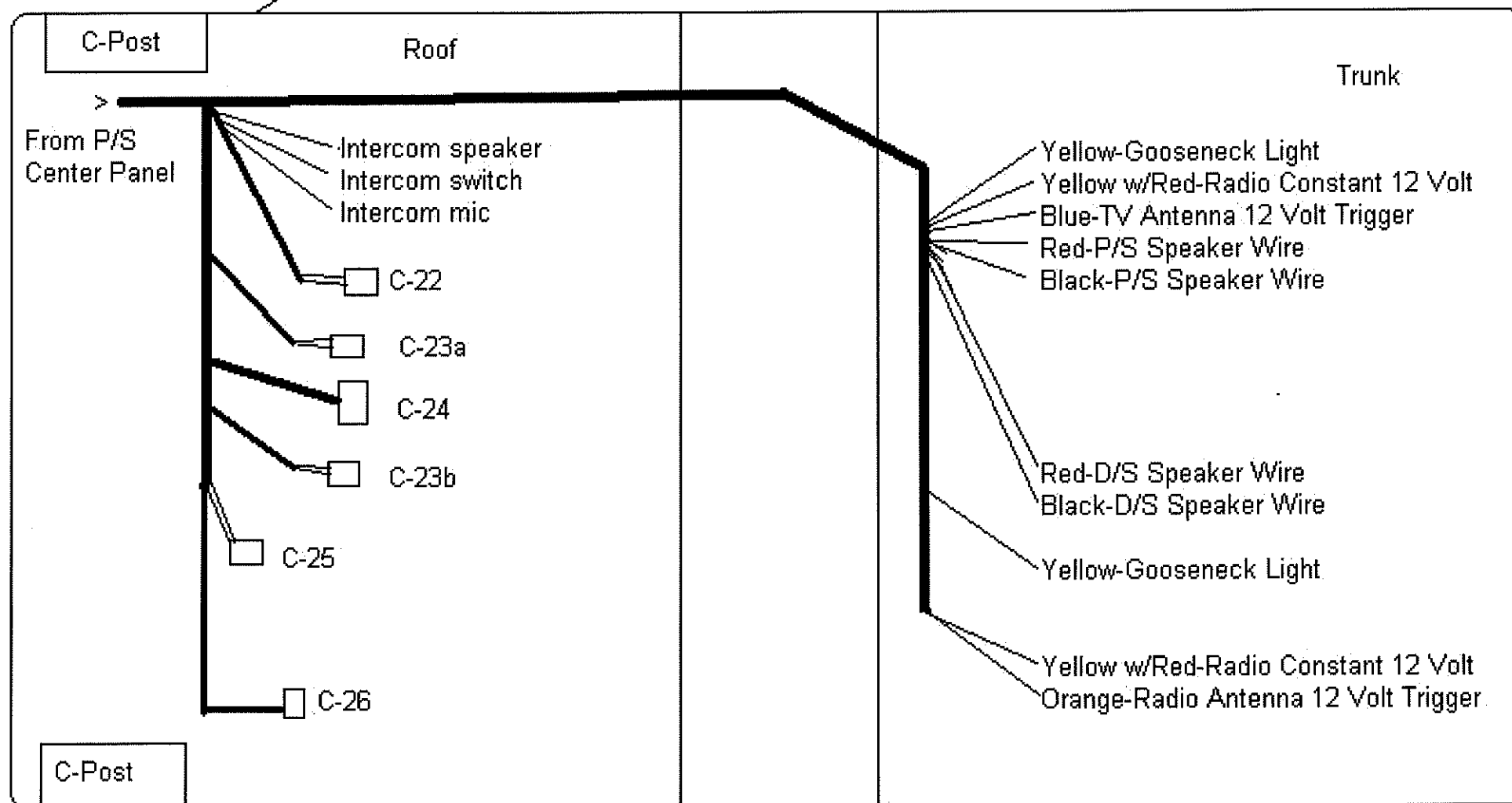
To Rear of ³
Limousine
[Top View]



< Front

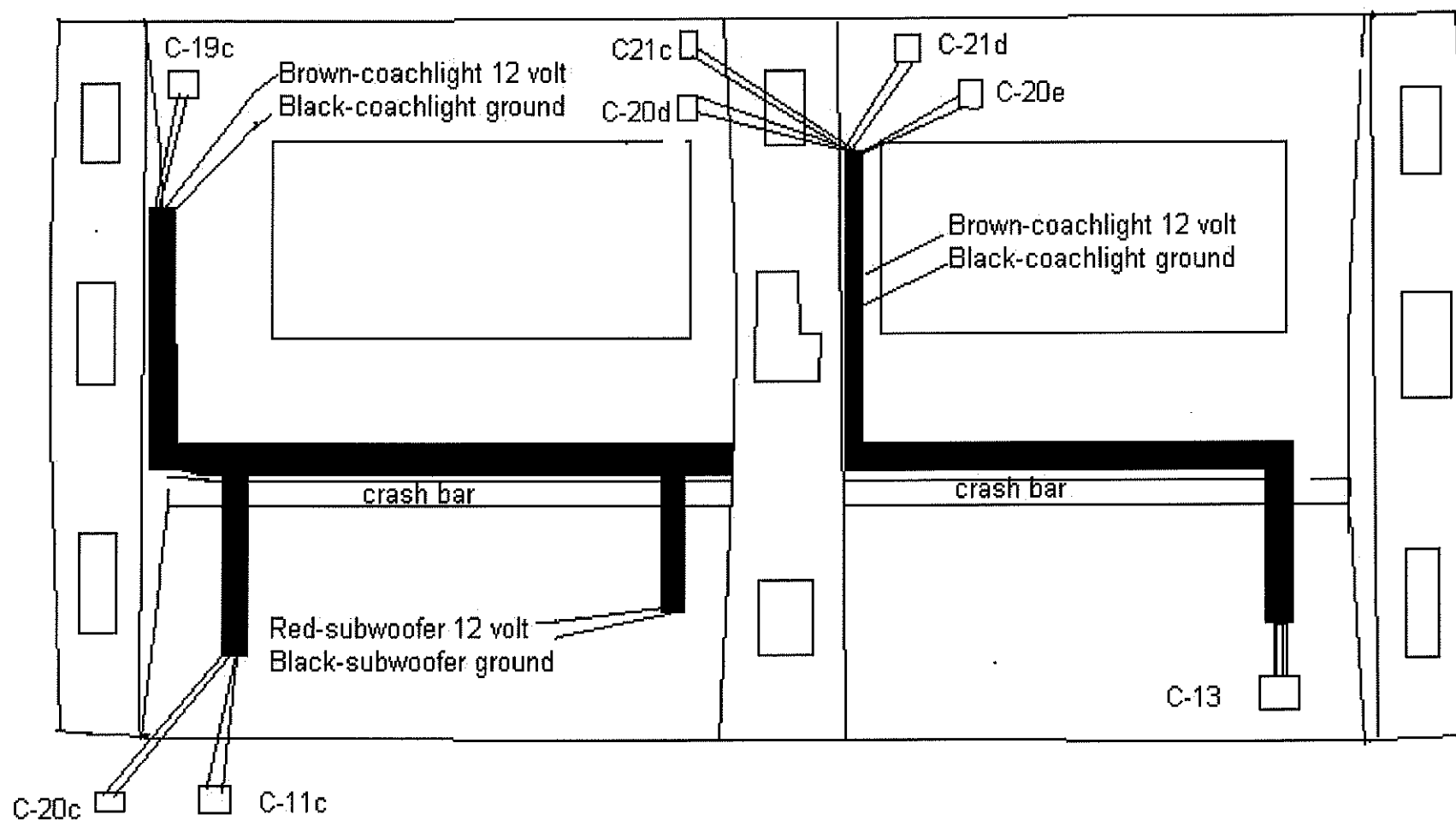
Rear of Limousine [View from Top]

4



D/S CENTER PANEL

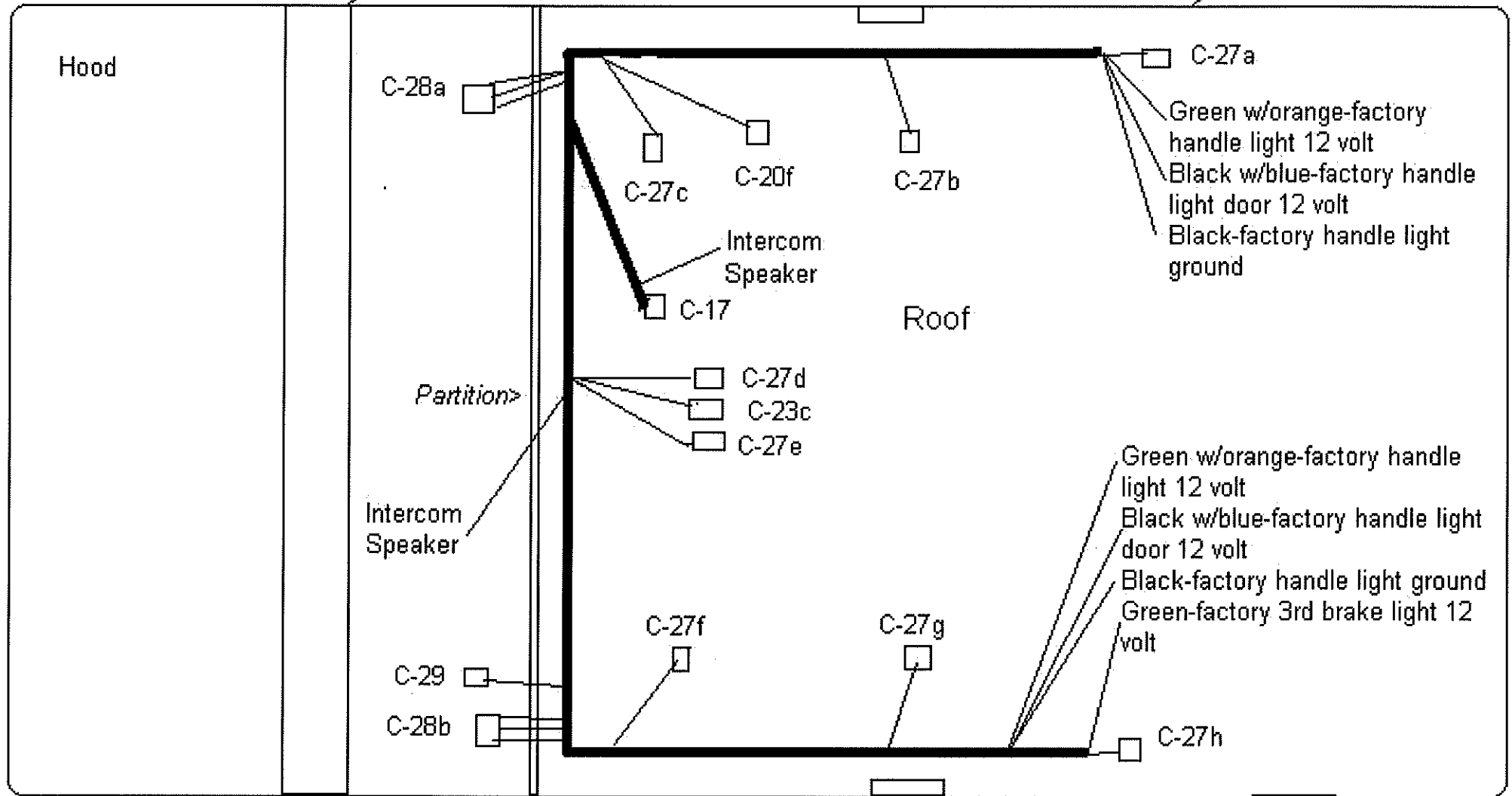
FRONT >



Top View Of Limousine
Roof Harness

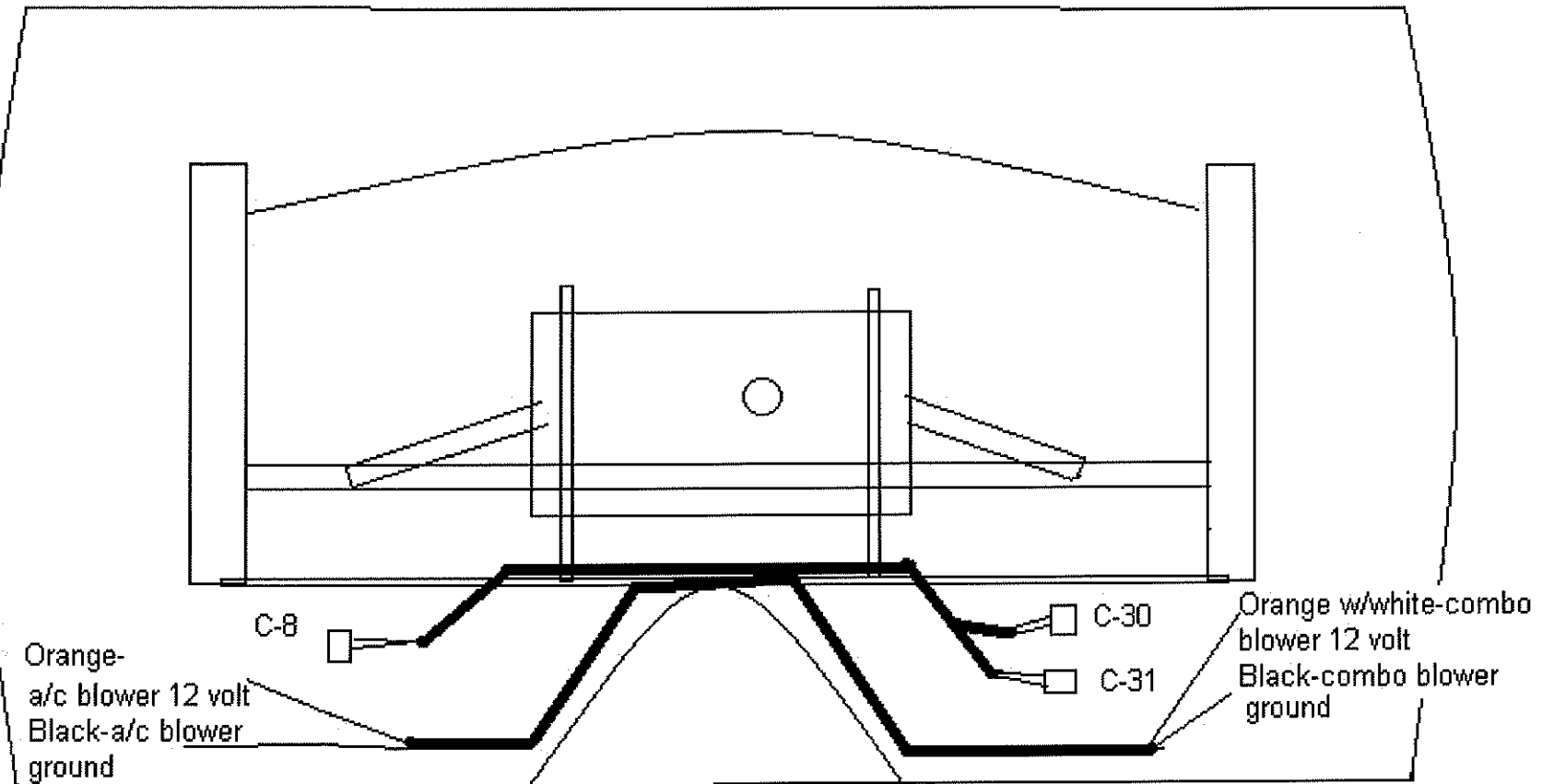
6

<Front



Heat and A/C Partition Harness

7

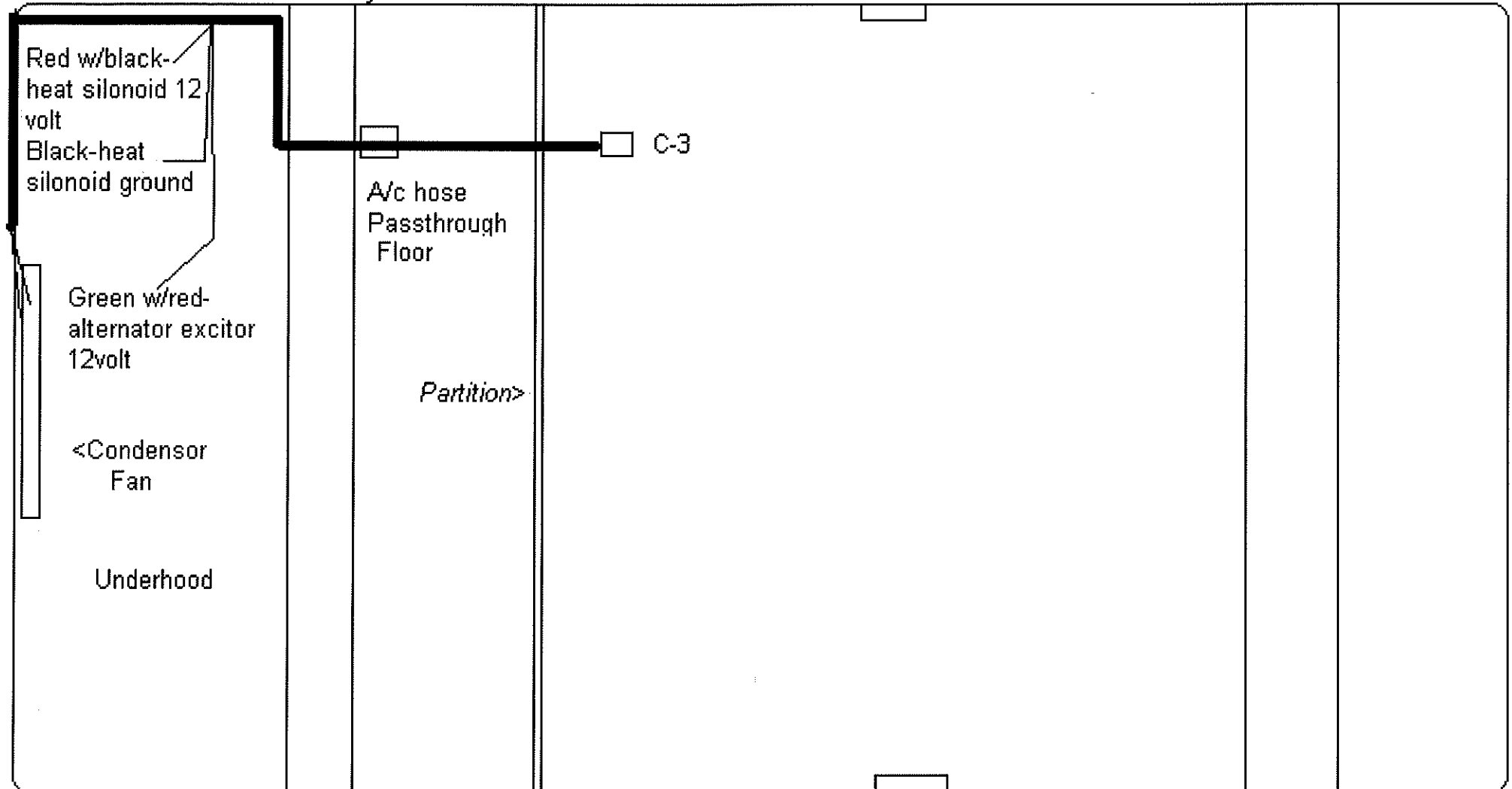


Top View Of Limousine
Underhood

18

<Front

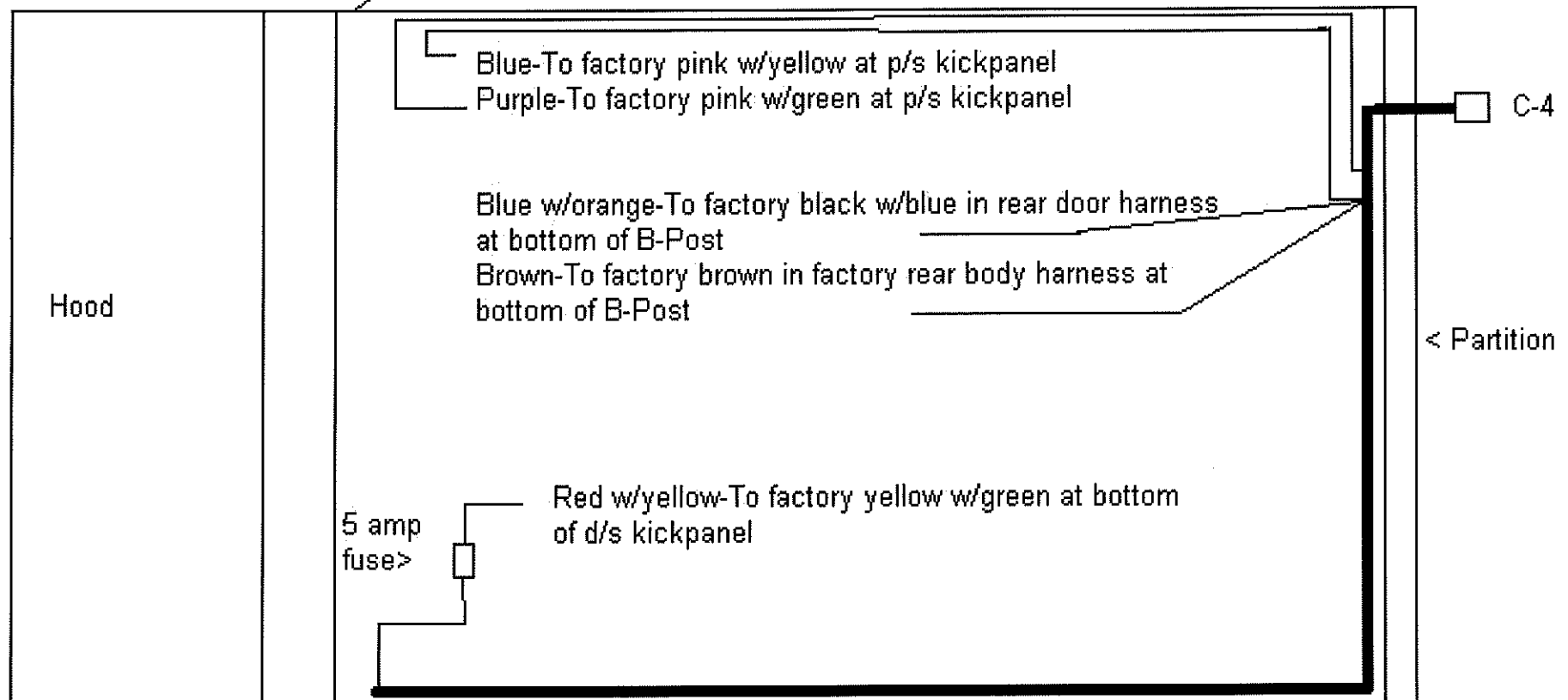
Center Post



Front Section of Limousine [Top View]

9

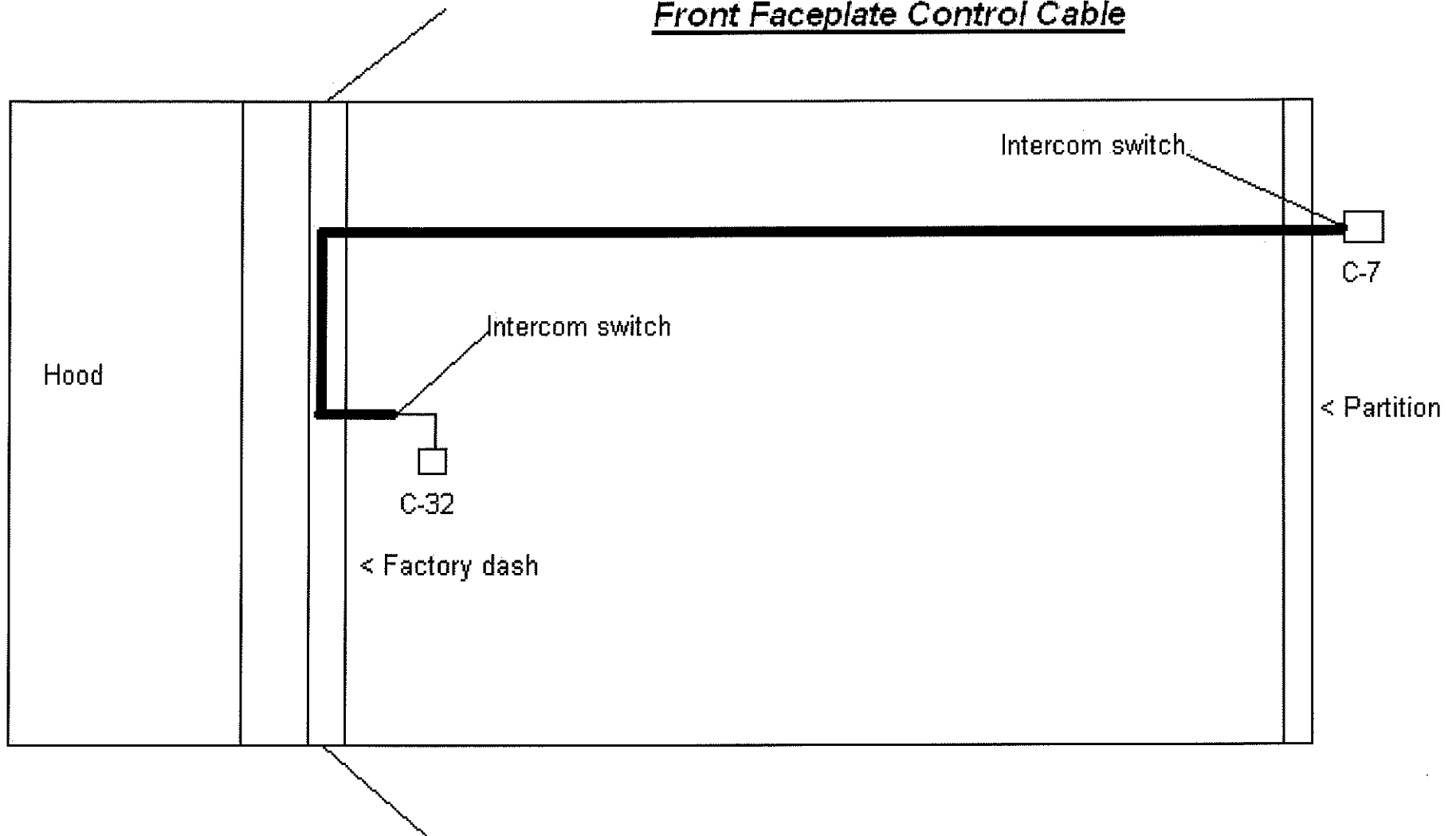
Factory Tie In Harness



Front Section of Limousine [Top View]

10

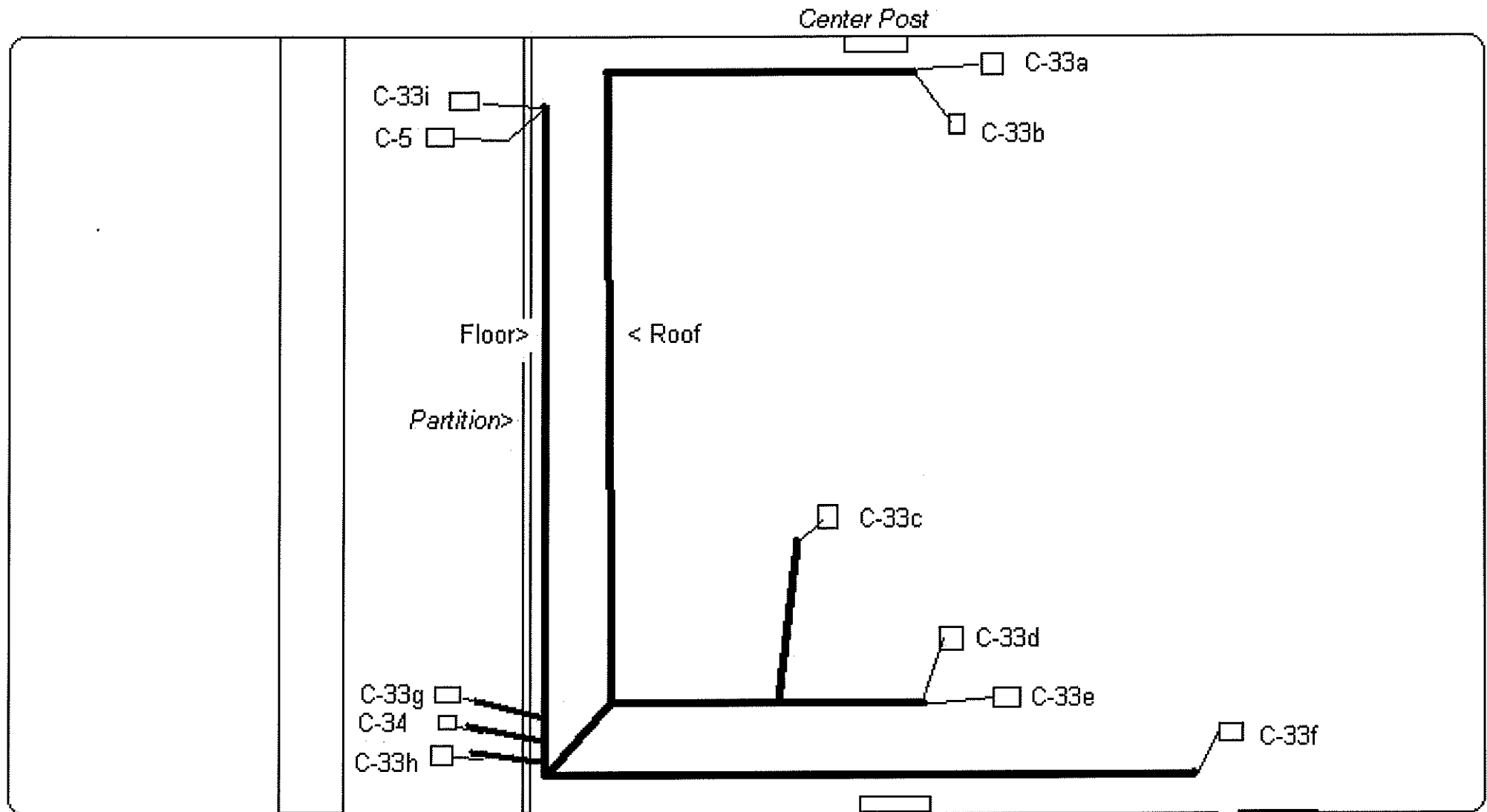
Front Faceplate Control Cable



Top View Of Limousine
RGB Lights

11

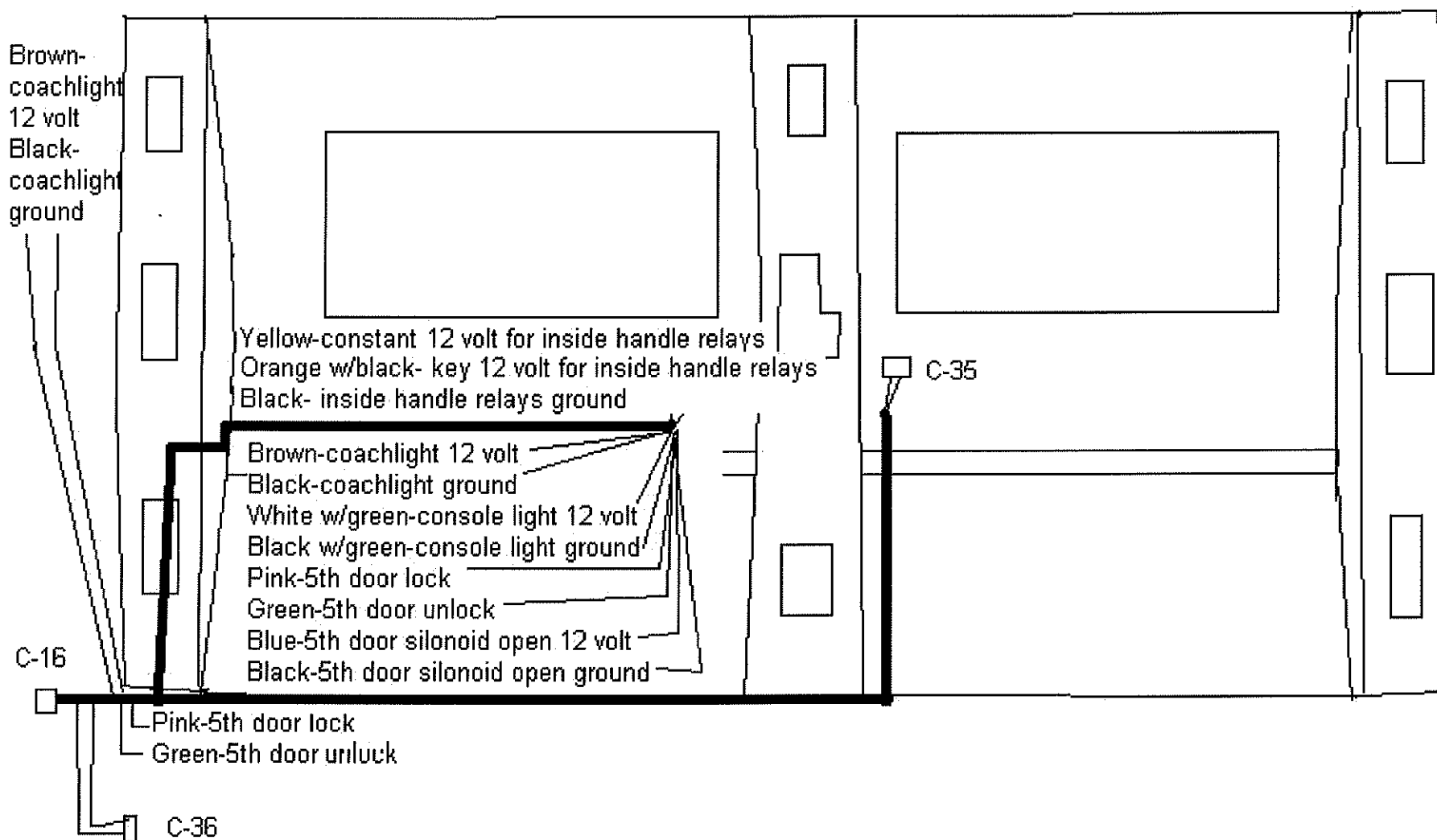
<Front



5th Door Car Harness

12

< Front



Top View of Limousine
5th Door Open Harness

<Front

5th
Door>

Blue- 5th door open
switched 12 volt
Black- ground

Rear
Door>

Purple- 5th door open
12 volt
Blue- 5th door open
switched 12 volt

13

C-36 □

C-37 □

Center Post

10 amp
fuse

Purple- 5th door
open 12 volt

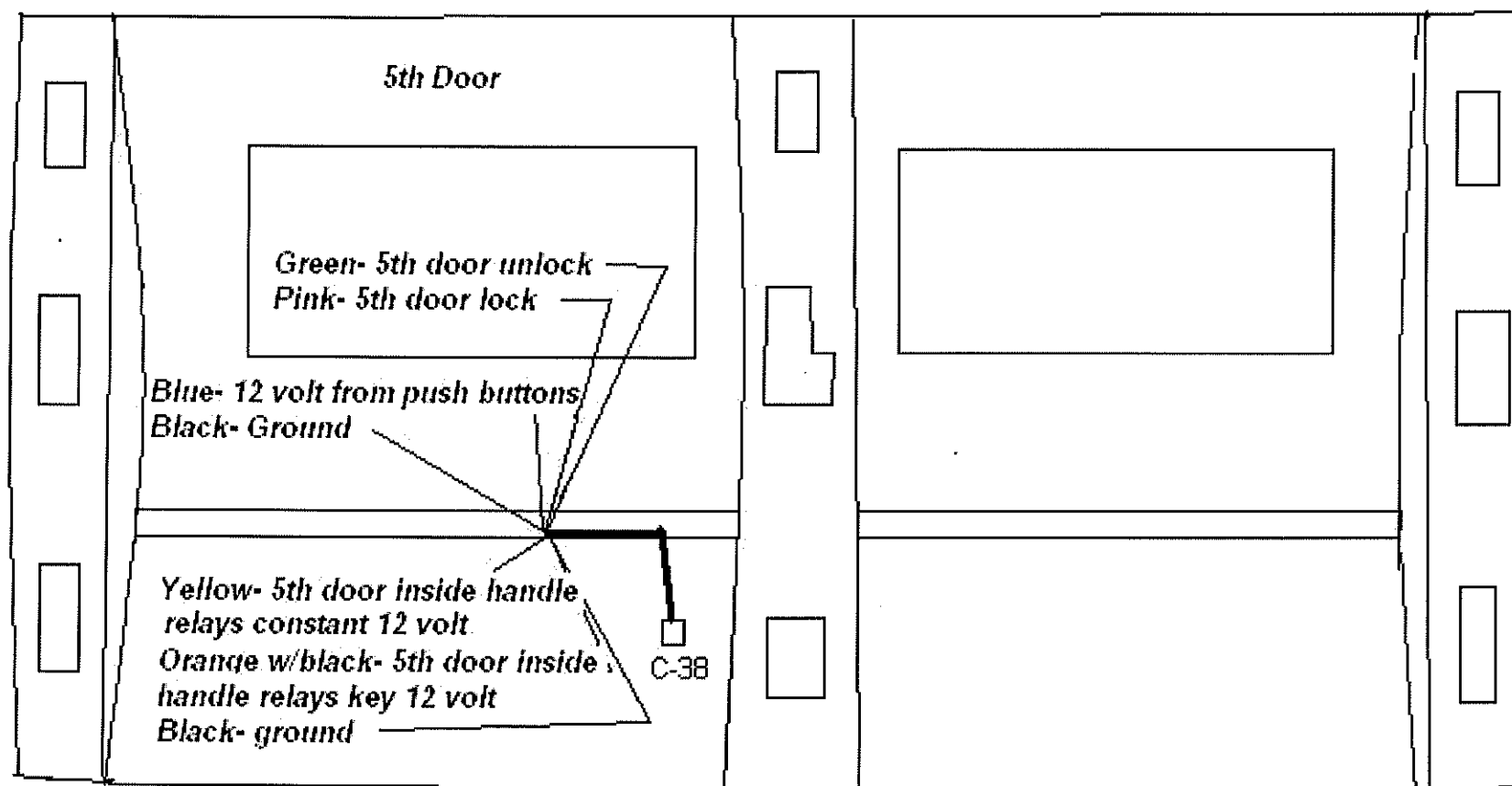
Ground> ○

Partition>

Purple- 5th door open 12 volt
Blue- 5th door open switched 12 volt

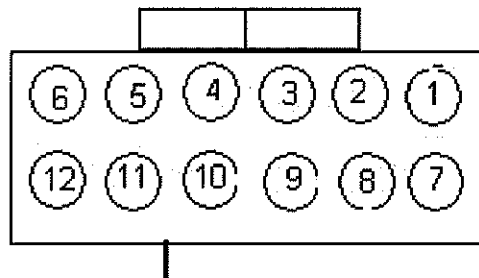
5th Door Relays

14



DaBryan Wire Color Codes

Accent- 16ga lt blue	
Ceiling- 16ga white/red	
Ceiling- 16ga black/red controlled ground	
Console- 16ga white/green	
Console- 16ga black/green controlled ground	
Mood- 16ga white/blue	
Mood- 16ga black/blue controlled ground	
Floor- 16ga purple	
Starlight- 16ga green	
Vanity/ no smoke- 16ga yellow	
Coach/Rear protector light- 16ga brown	
Moon roof open - 14ga yellow	
Moon roof close- 14ga green	
Partition up- 14ga yellow	
Partition down- 14ga red	
Glass up- 14ga blue/orange	
Glass down- 14ga red/white	
Subwoofer- 12ga red	
Ice bucket- 14ga dark green	
Video- 14ga blue	
Radio- 14ga red/yellow	
Radio Constant- 14ga yellow/red	
Door open - 14ga blue/orange + activation	
PowerPoint- 14ga red/blue	
Intercom- 18ga red	
Alternator activation- 16ga green GXL	
Con Fan- 12ga blue GXL	
Heat valve- 16ga white GXL	
Aux- 14ga pink	
Main key hot-14ga red/yellow	

C-1

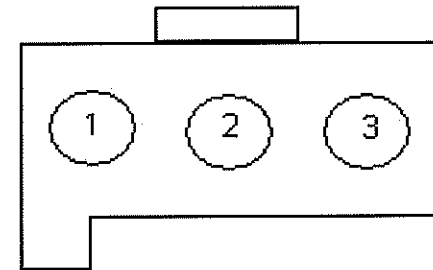
12 pin gray connector

Location:

*p/s of partition below relay panel
relay panel and partition main harness*

Pin#

1. Brown- coachlight 12 volt
2. Red- subwoofer 12 volt
3. Red w/blue- power point 12 volt
4. Blue - monitor 12 volt
5. Red w/ yellow- radio key 12 volt
6. Yellow w/red - radio constant 12 volt
7. Purple- floor lights 12 volt
8. Green- ice bucket lights 12 volt
9. White w/red- ceiling lights 12 volt
10. White w/blue- mood lights 12 volt
11. White w/green- console lights 12 volt
12. Yellow- vanity and no smoking lights 12 volt

C-2

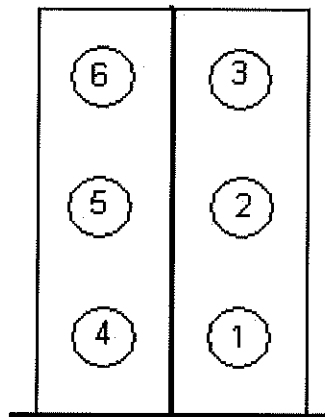
3 pin gray connector

Location:

*p/s of partition below relay panel
relay board and partition main harness*

Pin#

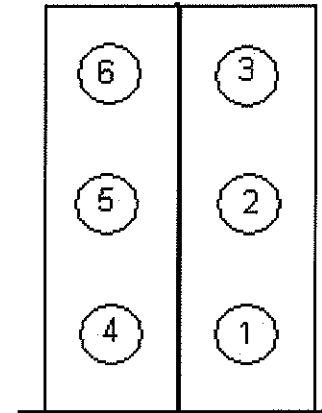
- 1 Yellow w/red- radio constant 12 volt
2. Black w/blue- mood light control ground
3. Black w/red- ceiling light control ground

C-3

6 pin brown connector

Location:*relay board and underhood harness***Pin#**

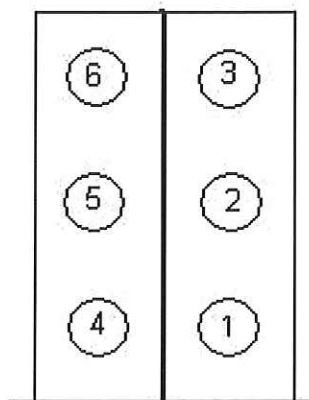
- 1. Blue- condensor fan 12 volt
- 2. White- heat silonoid 12 volt
- 3. Green- 2nd alternator 12 volt trigger
- 4. Black- ground
- 5. Black- ground
- 6. open

C-4

6 pin brown connector

Location:*relay board and factory tie in harness***Pin#**

- 1. Red- main key 12 volt for relay board
- 2. Brown- coach light relay 12 volt trigger
- 3. Blue- from door lock switch in rear overhead console
- 4. open
- 5. Blue w/orange- door open relay 12 volt trigger
- 6. Purple- from door unlock switch in rear overhead console

C-5

2- RED
2- BLACK

6 pin brown connector

Location:

* relay board and rgb lights harness

Pin#

- 1.Green- starlight light box 12 volt
- 2.Blue- rgb light box 12 volt
- 3.Pink- aux 1 key 12 volt
- 4.Black- ground
- 5.Black- ground
- 6.Black- ground

BLUE & RED
LIGHTING

Henny

C-6

25 pin Computer cable[rear control]

Location:

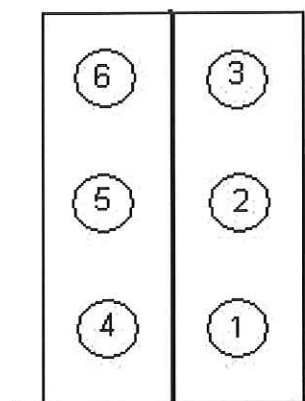
relay board and p/s center panel harness

C-7

25 pin Computer cable[front control]

Location:

relay board and front faceplate control cable harness

C-8

6 pin brown connector

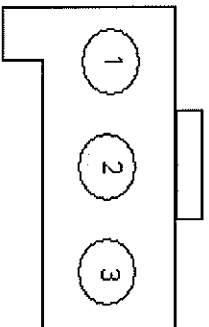
Location:

relay board and heat a/c partition harness

Pin#

- 1.Orange- a/c blower 12 volt
- 2.Orange w/white- combo motor 12 volt
- 3.open
- 4.Black- a/c bypass control ground
- 5.Black- a/c bypass control ground
- 6.Black w/white- heat sinks transistor control

C-9



3 pin gray connector

Location:

*Center of partition by privacy panel motor
relay board*

Pin#

- 1.Red- partition panel motor
- 2.open
- 3.Yellow- partition panel motor

C-11a. C-11b. C-11c



2 pin white connector

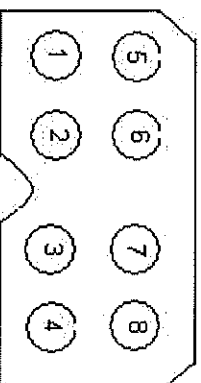
Location:

- C-11a: center of car by partition at floor
 - C-11b: p/s center post at floor
 - C-11c: d/s rear end of f-seat or side seat at floor
- partition main harness
p/s center panel
d/s center panel*

Pin#

- 1.Black- floor lights ground
- 2.Purple- floor lights 12 volt

C-10



8 pin blue connector

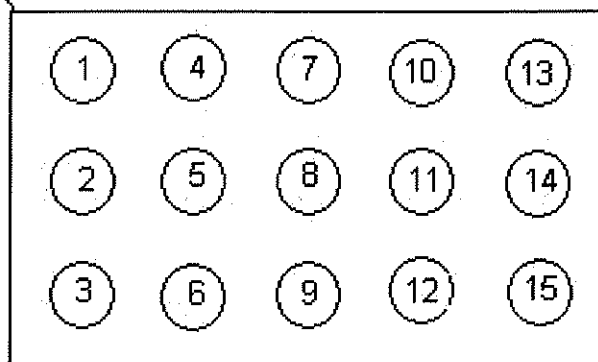
Location:

*plugs into dimmer box on relay board
partition main harness*

Pin#

- 1.Black w/ red- ceiling light control ground
- 2.Black- ground
- 3.Black- ground
- 4.Black w/ green-console lights control ground
- 5.open
- 6.open
- 7.Black-ground
- 8.Black w/ blue-mood lights control ground

C-12



15 pin white connector

Location:

d/s of partition at floor
partition main harness

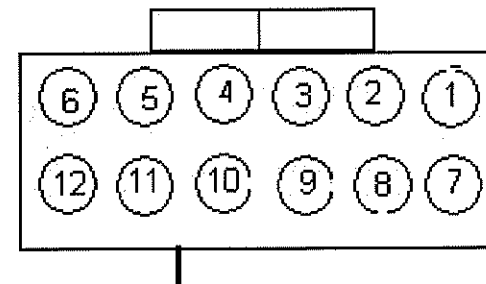
120 ice bucket light harness [optional]

Pin#

1. White w/green- console lights 12 volt
2. Black w/green-console lights control ground
3. open
4. open
5. open
6. Black- ice bucket lights ground
7. open
8. open
9. open
10. White w/blue- mood lights 12 volt
11. Black w/blue- mood lights control ground
12. open
13. open
14. Green- ice bucket lights 12 volt
15. Black-ground

C-13

20



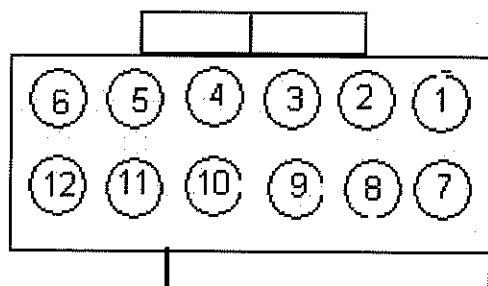
12 pin gray connector

Location:

d/s of partition at floor
partition main harness and d/s center panel harness

Pin#

1. Red- subwoofer 12 volt
2. Blue- monitor 12 volt
3. Purple- floor lights 12 volt
4. Brown- coachlights 12 volt
5. White w/blue-mood lights 12 volt
6. White w/green- console lights 12 volt
7. Black- ground
8. Black- ground
9. Black- ground
10. Black-ground
11. Black w/blue- mood lights control ground
12. Black w/green- console lights control ground

C-14

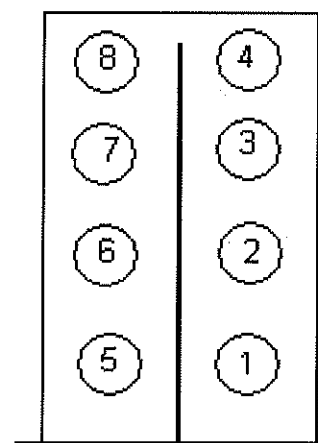
12 pin gray connector

Location:

*p/s of partition at floor
partition main harness and p/s center panel harness*

Pin#

- 1.Red w/blue- power point 12 volt
- 2.Blue- monitor 12 volt
- 3.Purple- floor lights 12 volt
- 4.Brown- coach lights 12 volt
- 5.Red w/ yellow- radio key 12 volt
- 6.Clear- d/s radio speaker +
- 7.Yellow- vanity and no smoking lights 12 volt
- 8.Yellow w/red- radio constant 12 volt
- 9.White w/green- console lights 12 volt
- 10.White w/blue- mood lights 12 volt
- 11.open
- 12.Clear- d/s radio speaker -

C-15

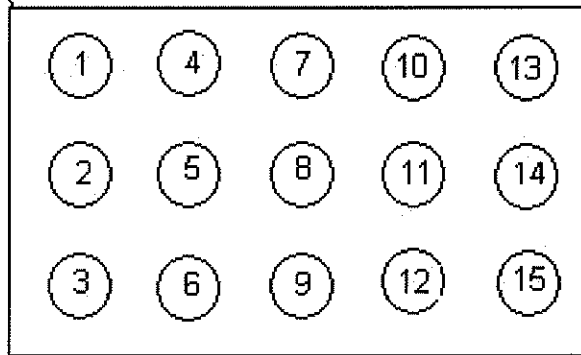
8 pin gray connector

Location:

*p/s of partition at floor
main partition harness and p/s center panel harness*

Pin#

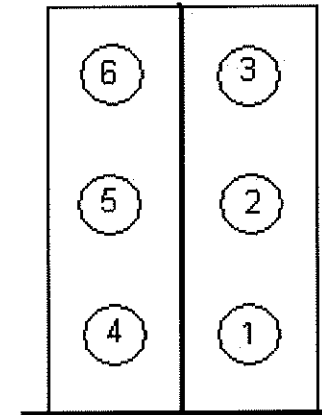
- 1.Black- ground
- 2.Black- ground
- 3.Black- ground
- 4.Black- Ground
- 5.Black- ground
- 6.Black w/green- console lights control ground
- 7.Black- ground
- 8.Black w/blue- mood lights control ground

C-16

15 pin white connector

Location:*p/s of partition at floor**partition main harness , 5th door car harness and 120 console harness[optional]***Pin#**

- 1.White w/green- console lights 12 volt
- 2.Black w/green- console lights control ground
- 3.open
- 4.open
- 5.open
- 6.Black- ice bucket lights ground
- 7.open
- 8.open
- 9.open
- 10.White w/blue- mood lights 12 volt
- 11.Black w/blue- mood lights control ground
- 12. open
- 13. open
- 14.Green- ice bucket lights 12 volt
- 15.Black- ground

C-17

6 pin brown connector

Location:*p/s of partition behind lower filler
partition main harness and roof harness***Pin#**

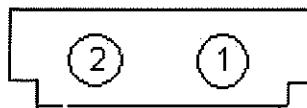
- 1.White w/green- console lights 12 volt
- 2.White w/red- ceiling lights 12 volt
- 3.Yellow- vanity and no smoking lights 12 volt
- 4.Black w/green- console lights control ground
- 5.Black w/red- ceiling lights control ground
- 6.Black- ground

C-18

15 pin Computer cable

Location:
plugs into dimmer box

C-19a, C-19b, C-19c



2 pin white connector

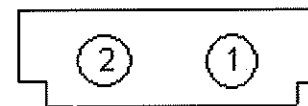
Location:

C-19a: p/s center post by center window
C-19b: p/s rear post {C post} by center window
C-19c: d/s rear post {C post} by center window
p/s center panel harness
d/s center panel harness

Pin#

1.Black- ground
2.Blue- monitor 12 volt

C-20a, C-20b, C-20c, C-20d, C-20e, C-20f



2 pin white connector

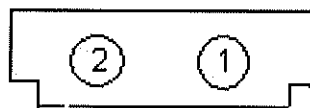
Location:

C-20a: and C-20b: p/s center post at ceiling
C-20c: d/s rear end of j-seat or side seat at floor
C-20d:and C-20e:d/s center post at ceiling
C-20f: front end of mirror ceiling
p/s center panel harness
d/s center panel harness
roof harness

Pin#

1.Black w/green- console lights control ground
2.White w/green- console lights 12 volt

C-21a, C-21b, C-21c, C-21d



2 pin white connector

Location:

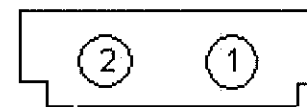
C-21a: and C-21b: p/s center post at ceiling
C-21c: and C-21d: d/s center post at ceiling
p/s center panel harness
d/s center panel harness

Pin#

1.Black w/blue: mood lights control ground
2.White w/blue: mood lights 12 volt

C-22

24



2 pin white connector

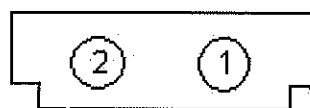
Location:

rear overhead console
rear of limousine harness

Pin#

1.Black- ground
2.Brown- coachlight 12 volt

C-23a, C-23b, C-23c



2 pin white connector

Location:

C23a: and C-23b: rear of limousine harness

C23c: roof harness

Pin#

1.Black- ground

2.Yellow- vanity and no smoking lights 12 volt

C-24

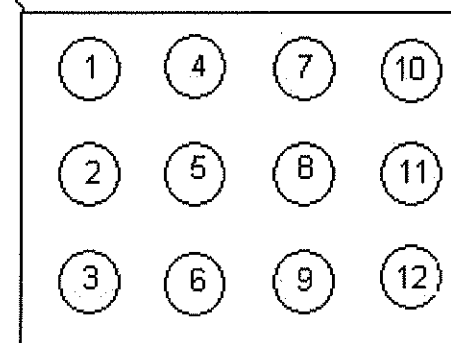
25 pin Computer cable

Location:

rear of limousine harness

C-25

25



12 pin white connector

Location:

rear of limousine harness

Pin#

1.Clear- left front speaker -

2.Clear- left front speaker+

3.Yellow w/red-radio constant 12 volt

4.Clear- right front speaker-

5.Clear- right front speaker+

6.Orange- power antenna 12 volt trigger

7.Black- right rear speaker -

8.Red- right rear speaker +

9.Red w/yellow- radio key 12 volt

10.Black- left rear speaker -

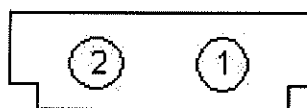
11.Red- left rear speaker +

12.Black- ground

C-26

15 pin Computer cable

Location:
rear overhead console harness

C-27a, C-27b, C-27c, C-27d, C-27e, C-27f, C-27g, C-27h

2 pin white connector

Location:

C-27a: in ceiling by p/s rear door

C-27b: in ceiling rear of p/s center post

C-27c: in ceiling front of rear compartment on p/s

C-27d and C-27e in ceiling above center of partition

C-27f: in ceiling front of rear compartment on d/s

C-27g: in ceiling rear of d/s center post

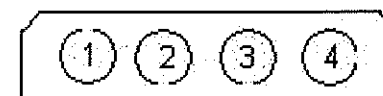
C-27h: in ceiling by d/s rear door

roof harness

Pin#

1.Black w/red- ceiling lights control ground

2.White w/ red- ceiling lights 12 volt

C-28a, C-28b

4 pin white plug

Location:

C-28a : p/s above partition

C-28b: d/s above partition

roof harness

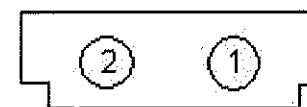
Pin#

1.open

2.Green w/orange- factory domelight 12 volt

3.Black w/blue- factory domelight door open 12 volt

4.Black- ground

C-29

2 pin white plug

Location:

d/s above partition

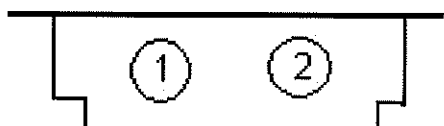
roof harness

Pin#

1.Green- factory 3rd brake light 12 volt

2. open

C-30



2 pin gray connector

Location:

d/s of partition at floor
heat and a/c partition harness

Pin#

1.Black- a/c bypass and a/c motor control ground

2.Black w/white- heat sinks transistor control

C-31



2 pin gray connector

Location:

d/s of partition at floor
heat and a/c partition harness

Pin#

1.Black- combo bypass and combo motor control ground

2. Black w/white- heat sinks transistor control

C-32

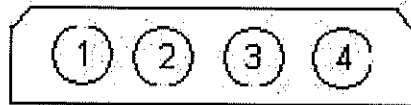
25 pin Computer cable

Location:

C-41- behind front control panel in dash
front faceplate control cable harness

C-33a, C-33b, C-33c, C-33d, C-33e, C-33f, C-33g

C-33h, C-33i



4 pin white plug

Location:

C-33a and C-33b p/s center post at ceiling
 C-33c front end of ceiling mirror
 C-33d and C-33e d/s center post at ceiling
 C-33f rear end of j-seat or side seat at floor
 C-33g and C-33h d/s of partition at floor
 C-33i p/s of partition at floor
 rgb lights harness

Pin#

1.Pink w/yellow- rgb red light
 2.Green- rgb green light
 3.Blue- rgb blue light
 4.Black w/orange-rgb 12 volt

C-34



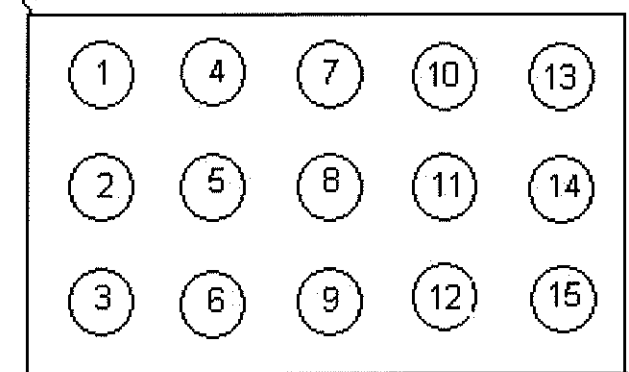
2 pin white connector

Location:

d/s of partition at floor
 rgb light harness

Pin#

1.Black- ground
 2.Red- rgb module 12 volt

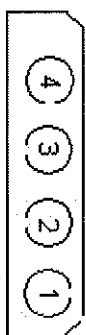
C-35*15 pin white connector**Location:*

*p/s center post by bottom of window
5th door car harness*

Pin#

- 1.White w/green- console lights 12 volt*
- 2.Black w/green- console lights control ground*
- 3.open*
- 4.open*
- 5.open*
- 6.Black- ice bucket lights ground*
- 7.open*
- 8.open*
- 9.open*
- 10.open*
- 11.open*
- 12 open*
- 13 open*
- 14.Green- ice bucket light 12 volt*
- 15.Black- ground*

C-36



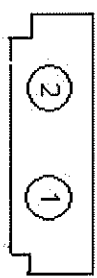
4 pin white connector

Location:
p/s of partition at floor
5th door open and 5th door car harness

Pin#

1. Yellow- 5th door inside handle relays constant 12 volt
2. Orange w/black- 5th door inside handle relays key 12 volt
3. Blue- 12 volts from 5th door open push buttons
4. Black- ground

C-37



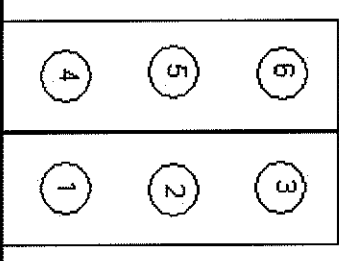
2 pin white connector

Location:
p/s of partition at floor
5th door open harness
relay board

Pin#

1. Orange w/black- 5th door inside handle relays key 12 volt
2. open

C-38



6 pin brown connector

Location:
inside 5th door
5th door relay harness

Pin#

1. Green- 5th door unlock
2. Blue- 12 volts from inside handle
3. Black- ground
4. Pink- 5th door lock
5. Blue- 12 volts from push buttons
6. Orange w/black- key 12 volt to 5th door relays