

2006 & 2007 Low Voltage

COACH & TOWABLE FUSE/BREAKER LOCATIONS

ITEM	LOCATION	SIZE
12 V Converter	At Converter	40 Amp Breaker, Auto, 2
A/C Controls	Fuse Panel	7.5 Amp Fuse
Auto Generator Start	Fuse Panel	7.5 Amp Fuse
Awning	Fuse Panel	20 Amp Fuse
Bathroom	Fuse Panel	20 Amp Fuse
Bed Lift	Fuse Panel	20 Amp Fuse
Bedroom	Fuse Panel	20 Amp Fuse
Break Away Switch	Within 18" of Battery	20 Amp Breaker, Auto
Converter, 12 V	Front of Converter	Fuse - Varies on Converter Size
Compartment Lights	See Wrap Lights	See Wrap Lights
Detector, LP, Towable	Fuse Panel	1 Amp Fuse
Detector, LP, Motorized	See Motorized Locations	
Electric Step	With-in 18" of Battery	25 Amp Breaker, Auto
Fantastic Vent	Fuse Panel	7.5 Amp Fuse
Furnace T-Stat	At Furnace	3 Amp Inline Fuse
Furnace	Fuse Panel	20 Amp Fuse
House Fuse Panel	With-in 18" of Battery	40 Amp Breaker, Auto, 2
House Fuse Panel	At Converter	40 Amp Breaker, Auto, 2
House Fuse Panel "CA"	Front Electrical Compartment	40 Amp Breaker, Auto, 2
House Fuse Panel "DP"	Rear Electrical Compartment	40 Amp Breaker, Auto, 2
Hydro Hot	Rear Electrical Compartment	30 Amp Inline Fuse
Keyless Entry	Fuse Panel	10 Amp Fuse

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COACH & TOWABLE FUSE/BREAKER LOCATIONS

ITEM	LOCATION	SIZE
Kitchen Lights	Fuse Panel	20 Amp Fuse
Living Room Entry	Fuse Panel	20 Amp Fuse
Monitor Panel	Fuse Panel	20 Amp Fuse
Power Jack	Within 18" of Battery	30 Amp Breaker, Auto
Power Jack	Close to Jack Motor	30 Amp Round Inline Fuse
Refrigerator	Fuse Panel	5 Amp Fuse
Satellite	Fuse Panel	7.5 Amp Fuse
Security Light	Fuse Panel	20 Amp Fuse
Slide Out Lights	Fuse Panel	20 Amp Fuse
Slide Out Lock-Out	Dash Fuse Panel	7.5 Amp Fuse
Slide Out Motor	Fuse Panel	20 Amp Auto Reset Breaker
Sofa	Fuse Panel	20 Amp Fuse
Stereo	Behind Stereo	3 Amp Fuse
Stereo Bose MA DP	From Sub-Woofer	110V GFI Kitchen
TV/Stereo	Fuse Panel	20 Amp Fuse
Wrap Lights/Towable	Fuse Panel	20 Amp Fuse
Wrap Lights/Motorized	Fuse Panel	Relay 20 Amp Fuse
Water Compartment Heat Fan	At Furnace	Relay & 5 Amp Inline Fuse
Water Heater	Fuse Panel	7.5 Amp Fuse
Water Pump	Fuse Panel	20 Amp Fuse
Slide out w/Power Lock Arms	HouseFuse Panel	Same as Motor

Slide Out w/ Power Lock Arms Towable only: Also has a timer relay board in the compartment at the

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Front of the coach.

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CLASS A FUSE/BREAKER LOCATIONS

(Note: Each Chassis Manufacturer Has Their Own Fuse Panel And Breaker)

ITEM	LOCATION	SIZE
12 V Auxiliary Outlet	Dash Fuse Panel, F-28	20 Amp Fuse
A/C Clutch	From Chassis Fuse Panel	Varys
Air Horn	Dash Fuse Panel, K-4	Relay
Air Horn	Dash Fuse Panel, F-30	20 Amp Fuse
Auxiliary Heater	Dash Fuse Panel, F-2	15 Amp Fuse
Back Up Light	Dash Fuse Panel, F-6	5 Amp Fuse
Back Up Light/Monitor	Dash Fuse Panel, K-1	Relay
Back Up Monitor	Behind Monitor	3 Amp Fuse, Round
Back Up Monitor Ign.	Dash Fuse Panel, F-6	5 Amp Fuse
Battery Boost/Courtesy Light	Front Electrical Panel	7.5 Amp Inline Fuse
Battery Disconnect	At Solenoid	2 - 5 Amp Fuses
Bi-Directional Relay	Front Electrical Panel	8 Amp Mini Breaker Auto
Bi-Directional Relay	Front Electrical Panel Labeled Battery Boost	7.5 Amp Inline Fuse
Brake Light	Ford I/P Fuse Panel #1	15 Amp Min Fuse
CB	Front Electrical Panel	7.5 Amp Inline Fuse
Clearance Light, Right	Workhorse Engine Compartment Fuse Panel	5 Amp Mini Fuse
Clearance Light, Left	Workhorse Engine Compartment Fuse Panel	5 Amp Mini Fuse
Clearance Light	Ford Engine Compartment Relay Block	30 Amp Mini Fuse
Clearance Light	Ford Engine Compartment Fuse Box, #10	15 Amp Mini Fuse
Clearance Light, Day, ICC	Dash Fuse Panel, K-3	Relay
Clearance Light, Day, ICC	Dash Fuse Panel, F-34	7.5 Amp Fuse

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CLASS A FUSE/BREAKER LOCATIONS

(Note: Each Chassis Manufacturer Has Their Own Fuse Panel And Breakers)

ITEM	LOCATION	SIZE
Clearance Light, Day, ICC	Dash Fuse Panel, K-3	Relay
Clearance Light, Day, ICC	Dash Fuse Panel, F-34	7.5 Amp Fuse
Clearance Light, Night, ICC	Dash Fuse Panel, K-2	Relay
Clearance Light, Night, ICC	Dash Fuse Panel, F-33	15 Amp Fuse
Compartment Lights	House Fuse Panel	See Wrap Lights
Console Lights	Dash Fuse Panel, F-12	20 Amp Fuse
Courtesy Lights/Battery Boost	Front Electrical Panel	7.5 Amp Inline Fuse
Converter	Fuse In Front of Converter	Fuse - Varies on Converter Size
Compass	Front Electrical Panel/MA,KS,CA	7.5 Amp w/Radio. Clock
Dash Fuse Panel	Front Electrical Panel	30 Amp Breaker, Auto
Dash LED Light Dimmer	Dash Fuse Panel, K-7	Relay
Dash LED Lights	Dash Fuse Panel, F-8	7.5 Amp Fuse
Dash Relay's	Front Electrical Panel	30 Amp Breaker, Auto
Day Time Running Lights	Ford I/P Fuse Panel, #17	5 Amp Mini Fuse
Day Time Running Lights	Workhorse I/P Fuse Block, #4	5 Amp Mini Fuse
Day Time Running Lights	Workhorse Under Dash I/P Con. Center	Relay
Detector, LP	Front Electrical Panel	1.0 Amp Inline Fuse
Detector, CO	In CO Detector	9 Volt Battery
Docking Lights	Dash Fuse Panel, F-19	15 Amp Fuse
Dome Light	Dash Fuse Panel, F-17	7.5 Amp Fuse
Engine Compartment Light, Front	House Fuse Panel	See Wrap Lights

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CLASS A FUSE/BREAKER LOCATIONS

(Note: Each Chassis Manufacturer Has Their Own Fuse Panel And Breakers)

ITEM	LOCATION	SIZE
Fog Lights	Dash Fuse Panel, K-6	Relay
Fog Lights	Dash Fuse Panel, F-31	15 Amp Fuse
Headlights	Left Side Front Firewall	Relay
Headlights	Front Electrical Panel or Firewall	25 Amp Inline Fuse
House Fuse Panel	Front Electrical Panel	40 Amp Breaker, Auto, 2
Ignition	Dash Fuse Panel, K-5	Relay
Ignition	Front Electrical Panel	8 Amp Breaker, Auto
Ignition Power to Dash Fuse Panel	Ford I/P Fuse Panel, #38	10 Amp Mini Fuse
Ignition Power to Dash Fuse Panel	Engine Comp't Fuse Panel, #5	60 Amp Maxi Fuse
Ignition Relays on CS & BS	Ford I/P Fuse Panel, #38	10 Amp Mini Fuse
Ignition Relays on CS & BS	Engine Compartment Fuse Panel, #5	60 Amp Maxi Fuse
Invertor, 400 Watt	Front Electrical Panel	50 Amp Breaker, Auto
Invertor, Trace or Combi Series	Within 18" of Battery	300 Amp Fuse
Jack Atwood – Ign.	Behind Center Dash Panel	3 Amp Inline Service
Jack HWH Buzzer	Dash Fuse Panel, F-15	5 Amp Fuse
Jack Atwood	Under Chassis Battery	120 Amp Breaker
Jack HWH Power	At Jack Motor	40 Amp Fuse
Jack HWH Accessory	Ford Dash Fuse Panel	10 Amp Fuse
Jack HWH Accessory	Workhorse Dash Fuse Panel	10 Amp Fuse
Overhead Fan	Dash Fuse Panel, F-11	15 Amp Fuse
Power Mirror	Dash Fuse Panel, F-10	7.5 Amp Fuse

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CLASS A FUSE/BREAKER LOCATIONS

(Note: Each Chassis Manufacturer Has Their Own Fuse Panel And Breakers)

ITEM	LOCATION	SIZE
Power Seat	Front Electrical Panel	30 Amp Breaker, Auto
Power Window	Dash Fuse Panel, F-12	20 Amp Fuse
Radio	Behind Radio	3 Amp Fuse
Radio	Behind Radio	1 Amp Fuse
Radio	Front Electrical Panel	7.5 Amp Inline Fuse
Radio, Clock	Front Electrical Panel	7.5 Amp Inline Fuse
Reading Lights	Dash Fuse Panel, F-12	20 Amp Fuse
Slide Out Motor Lock-Out	Dash Fuse Panel, F-9	7.5 Amp Fuse
Slide Out Motor Power	House Fuse Panel	20 Amp ATC Breaker Auto
Slide Out Power Lock Arms	House Fuse Panel	Same as Motor
Solar Panel – MA & KS	Dash Fuse Panel, F – 27	5 Amp Fuse
Solar Panel CS & BS	Front Electrical Panel	5 Amp Inline Fuse
Solar Prep	Compartment Next to Battery	30 Amp Inline FuseMax
Spot Light	Dash Fuse Panel, F-5	10 Amp Fuse
Step Ign.	Dash Fuse Panel, F-7	5 Amp Fuse
Step Switch	Front Electrical Panel	5 Amp Inline Fuse
Step Power	Front Electrical Panel	25 Amp Breaker, Auto
TV Antenna Up	Dash Fuse Panel, F-4	7.5 Amp Fuse
Tow Plug, Clearance Lights	Ford Engine Compartment Fuse Box, #12	20 Amp Min Fuse
Tow Plug, Clearance Lights	Ford Engine Compartment Relay Block	Relay
Tow Plug, Turn Light – Right	Ford I/P Fuse Panel, #12	10 Amp Min Fuse

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CLASS A FUSE/BREAKER LOCATIONS

(NOTE: EACH CHASSIS MANUFACTURER HAS THEIR OWN FUSE PANEL AND BREAKERS)

ITEM	LOCATION	SIZE
Tow Plug, Turn Light – Left	Ford I/P Fuse Panel, #6	10 Amp Min Fuse
Turn Light – Right	Ford I/P Fuse Panel #1, #21	15 Amp Min Fuse
Turn Light – Left	Ford I/P Fuse Panel #1, #15	15 Amp Min Fuse
Turn Light – Right	Ford I/P Fuse Panel #1, #21	15 Amp Min Fuse
Turn Light – Left	Ford I/P Fuse Panel #1, #15	15 Amp Min Fuse
Turn Light – Right	Workhorse Under Dash, I/P Fuse Block, #10	15 Amp Min Fuse
Turn Light – Left	Workhorse Under Dash, I/P Fuse Block, #10	15 Amp Min Fuse
TV Lock-Out	Dash Fuse Panel, F-13	7.5 Amp Fuse
Water Compartment Heat Fan	At Furnace	Relay & 5 Amp Inline Fuse
Windshield Wipers	Workhorse right side of OEM Fuse Panel	10 Amp Fuse
Windshield Wipers	Ford I/P Fuse Panel, #11	30 Amp Mini Fuse

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DIESEL PUSHER FUSE/BREAKER LOCATIONS

(Note: Each Chassis Manufacturer Has Their Own Fuse Panel And Breakers)

---Locations marked ODS Front Electrical Cmpmnt = Dash Fuse Panel on NSDP Only---

ITEM	LOCATION	SIZE
12 V Auxiliary Outlet	ODS Front Electrical Cmpmnt, F-28	20 Amp Fuse
A/C Clutch	From Chassis Fuse Panel	Varys
A/C Control, Freightliner	Front Electrical Panel	25 Amp Mini Breaker
A/C Condensor, Freightliner	Front Electrical Panel	25 Amp Mini Breaker
A/C Control, Spartan	Spartan Front Fuse Block	25 Amp Mini Fuse
A/C Condensor, Spartan	Spartan Front Fuse Block	25 Amp Mini Fuse
A/C Vacuum Pump	Spartan Front Fuse Block	30 Amp Mini Fuse
Air Horn	ODS Front Electrical Cmpmnt, K-4	Relay
Air Horn	ODS Front Electrical Cmpmnt, F-30	20 Amp Fuse
Auxiliary Heater	ODS Front Electrical Cmpmnt, F-2	15 Amp Fuse
Back Up Light	ODS Front Electrical Cmpmnt, F-6	5 Amp Fuse
Back Up Light/Monitor	ODS Front Electrical Cmpmnt, K-1	Relay
Back Up Monitor	Behind Monitor	3 Amp Fuse, Round
Back Up Monitor Ign.	ODS Front Electrical Cmpmnt, F-6	5 Amp Fuse
Battery Boost	Rear Electrical Compartment	7.5 Amp Inline Fuse
Battery Disconnect	At Solenoid	5 Amp Fuse, 2
Bi-Directional Relay	Spartan Front Panel	7.5 Amp Mini Fuse
Bi-Directional Relay	Rear Electrical Cmpmnt	8 Amp Mini Breaker, Auto
Bi-Directional Relay	Rear Electrical Cmpmnt	7.5 Amp Battery Boost Fuse
Blower Motor	Spartan Front Panel	25 Amp Fuse
Clearance Light, Day, ICC	ODS Front Electrical Cmpmnt, K-3	Relay

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DIESEL PUSHER FUSE/BREAKER LOCATIONS

(Note: Each Chassis Manufacturer Has Their Own Fuse Panel And Breakers)

---Locations marked ODS Front Electrical Cmpmtnt = Dash Fuse Panel on NSDP Only---

ITEM	LOCATION	SIZE
Clearance Light, Day, ICC	ODS Front Electrical Cmpmtnt, F-34	7.5 Amp Fuse
Clearance Light, Night, ICC	ODS Front Electrical Cmpmtnt, K-2	Relay
Clearance Light, Night, ICC	ODS Front Electrical Cmpmtnt, F-33	15 Amp Fuse
Compartment Lights	House Fuse Panel	See Wrap Lights
Compass Console Lights	Rear Electrical Compartment	7.5 Amp w/ Radio Clock
Console Lights	ODS Front Electrical Cmpmtnt, F-12	20 Amp Fuse
Converter	Fuse In Front of Converter	30 Amp Fuse, 2
Cord Reel	Rear Electrical Cmpmtnt	20 Amp Breaker, Auto
Courtesy Lights	Rear Electrical Panel	7.5 Amp Inline Fuse
Dash Fuse Panel	Front Electrical Panel	30 Amp Breaker, Auto or Fuse
Dash Fuse Panel Constant	Spartan Front Panel	30 Amp Fuse
Dash Fuse Panel Ign.	Front Electrical Panel	30 Amp Lg Spartan Gray Block Fuse
Dash LED Light Dimmer	ODS Front Electrical Cmpmtnt, K-7	Relay
Dash LED Lights	ODS Front Electrical Cmpmtnt, F-8	7.5 Amp Fuse
Dash Relay's	Front Electrical Panel	30 Amp Breaker, Auto or Fuse
Daytime Running Lights	Front Electrical Panel SPARTAN	Relay & Module SPARTAN INSTALLED
Daytime Running Lights	Dash Wire Harness FREIGHTLINER	Module NEWMAR INSTALLED
Daytime Running Lights	Front Fuse Panel FREIGHTLINER	2 – 10 Amp Mini Fuses & Relay
Daytime Running Lights	Front Fuse Panel FREIGHTLINER	After 1/2004 Freightliner Installed
Detector, LP	Rear Electrical Cmpmtnt	1.0 Amp Inline Fuse

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DIESEL PUSHER FUSE/BREAKER LOCATIONS

(Note: Each Chassis Manufacturer Has Their Own Fuse Panel And Breakers)

---Locations marked ODS Front Electrical Cmptmnt = Dash Fuse Panel on NSDP Only---

ITEM	LOCATION	SIZE
Detector, CO	In CO Detector	9 Volt Battery
Docking Lights	ODS Front Electrical Cmptmnt, F-19	15 Amp Fuse
Dome/Reading Lights	ODS Front Electrical Cmptmnt, F-17	7.5 Amp Fuse
Door Lock – Entry & Storage	ODS Front Electrical Cmptmnt, F-21	20 Amp Fuse
Engine Cmptmnt Light	House Fuse Panel	See Wrap Lights
Entrance Door Lock	ODS Front Electrical Cmptmnt, F-21	20 Amp Fuse
Fog Lights	ODS Front Electrical Cmptmnt, K-6	Relay
Fog Lights	ODS Front Electrical Cmptmnt, F-31	15 Amp Fuse
Freezer	Rear Electrical Cmptmnt	20 Amp Breaker, Auto
Headlights	Front Fire Wall, Left Side or Front Elect Panel	25 Amp Inline Fuse
Headlights	Front Fire Wall, Left Side	Relay
Hood Latch	ODS Front Electrical Cmptmnt, F-22	20 Amp Fuse
House Fuse Panel	Rear Electrical Panel	40 Amp Breaker, Auto, 2
Jacks HWH	At Jack Motor	40 Amp Inline Fuse
Jack HWH	At Jack Motor Control Panel	6 Fuses
Jack HWH Buzzer	ODS Front Electrical Cmptmnt, F-15	5 Amp Fuse
Jack HWH Accessory	Front Electrical Panel	15 Amp Fuse, LVL-ETL
Jack HWH Accessory	Spartan Front Panel	15 Amp Fuse
Jacks Atwood, Ign.	Behind Center Dash Panel	3 Amp Inline Fuse
Hydro-Hot	Rear Electrical Center	25 Amp Inline Fuse
Jacks Atwood	ODS Front Electrical Compartment	120 Amp Breaker
Ignition	ODS Front Electrical Cmptmnt, K-5	Relay

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DIESEL PUSHER FUSE/BREAKER LOCATIONS

(Note: Each Chassis Manufacturer Has Their Own Fuse Panel And Breakers)

---Locations marked ODS Front Electrical Cmpmnt = Dash Fuse Panel on NSDP Only---

ITEM	LOCATION	SIZE
Ignition	Front Fuse Block ACC#1, Freightliner	10 Amp Mini
Ignition	Rear Electrical Cmpmnt	8 Amp Breaker, Auto
Ignition	Front Fuse Block ACC#2, Spartan	15 Amp Mini Fuse
Ignition Relay	Spartan Front Panel	25 Amp Fuse
Invertor, 400 Watt	Rear Electrical Cmpmnt	50 Amp Breaker, Auto
Invertor, Trace or Combi Series	Within 18" of Battery	300 Amp Fuse
Keyless Entry	ODS Front Electrical Cmpmnt	7.5 ATC Breaker, Auto
Nav. Constant	ODS Front Electrical Cmpmnt	7.5 Amp Fuse
Nav. Ignition	ODS Front Electrical Cmpmnt	7.5 Amp Fuse
Nav. System Power	Inline at Brain Box	10 Amp Fuse
Overhead Fan	ODS Front Electrical Cmpmnt	15 Amp Fuse
Pager	ODS Front Electrical Cmpmnt	7.5 Amp Fuse
Power Mirror	ODS Front Electrical Cmpmnt	7.5 Amp Fuse
Power Seat	Front Electrical Panel	30 Amp Breaker, Auto
Power Seat	Spartan Front Panel	2-30 Amp Fuses
Power Window	ODS Front Electrical Cmpmnt	20 Amp Fuse
Radio, CB	Rear Electrical Panel	7.5 Amp Inline Fuse
Radio, Clock	Rear Electrical Panel	7.5 Amp Inline Fuse
Reading Lights	ODS Front Electrical Cmpmnt, F-17	7.5 Amp Fuse
Compass	Rear Electrical Cmpmnt	7.5 Amp w/Radio
Security System	Rear Electrical Cmpmnt	20 Amp Fuse
Security System	ODS Front Electrical Cmpmnt, F-21	15 Amp Fuse

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DIESEL PUSHER FUSE/BREAKER LOCATIONS

(Note: Each Chassis Manufacturer Has Their Own Fuse Panel And Breakers)

---Locations marked ODS Front Electrical Cmptmnt = Dash Fuse Panel on NSDP Only---

ITEM	LOCATION	SIZE
Security System	Rear Electrical Cmptmnt	20 Amp Fuse
Security System	ODS Front Electrical Cmptmnt, F-21	15 Amp Fuse
Slide Out Motor Lock-Out	ODS Front Electrical Cmptmnt, F-9	7.5 Amp Fuse
Slide Out Motor Power	House Fuse Panel	20 Amp ATC Breaker, Auto
Slide Out Power Lock Arms	House Fuse Panel	Same as Motor
Solar Panel	ODS Front Electrical Cmptmnt, F-27	5 Amp Fuse
Solar Prep	Rear Electrical Cmptmnt	10 Amp Inline Fuse
Spot Light	ODS Front Electrical Cmptmnt, F-5	10 Amp Fuse
Step Cover	ODS Front Electrical Cmptmnt, F-24	15 Amp Fuse
Step Ign.	ODS Front Electrical Cmptmnt, F-7	5 Amp Fuse
Step Power	Rear Electrical Cmptmnt	25 Amp Breaker, Auto
Step Switch	Rear Electrical Cmptmnt	5 Amp Inline Fuse
Storage Door Locks	ODS Front Electrical Cmptmnt, F-21	20 Amp Fuse
Surround Sound	ODS Front Electrical Cmptmnt, F-13	7.5 Amp Fuse
Trip-Tech	ODS Front Electrical Cmptmnt, F-20	7.5 Amp Fuse
Trip-Tech	ODS Front Electrical Cmptmnt, F-10	7.5 Amp Fuse
TV Antenna Up	ODS Front Electrical Cmptmnt, F-4	7.5 Amp Fuse
TV Lock-Out	ODS Front Electrical Cmptmnt, F-13	7.5 Amp Fuse
Water Cmptmnt Heat Fan	At Furnace	Relay & 5 Amp Inline Fuse
Windshield Wipers	Front Electrical Panel	25 & 10 Amp Fuse
Windshield Wipers	Spartan Front Panel	10 Amp Fuse
Wipers	Front Electrical Panel Right Block, Freightliner	25 Amp Mini Breaker

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WIRING COLOR SCHEMES

16 Gauge

Grounds	White
Back-Up Lights	Yellow
Ignition to Power Step	Pink
Clearance & Running Lights	Green
Right Turn Lights	Brown
Left Turn Lights	Red
Ignition to Slideout Motor	Pink w/ Green
Class A Blower Fan (IN HOLDING TANK AREA)	Orange
Slideout Switch	Purple
Courtesy Lights (HOT TO SWITCH)	Gray or Gray w/ Black
Courtesy Lights (SWITCHED)	Gray w/ White
Detectors, CO & LP	Red w/ Black
Rear Center Brake Light	Blue
LP Fuel Gauge	Red w/ Yellow
Air Conditioner Controls	Pink w/ Black
Monoplex Water Pump Switch	Yellow w/ Black
Vent Thermostats	Black / Pink / White
Wrap Light Switch	Orange
Satellite	Pink

Water Heater DSI Switch Harness	{ Red w/ White* Green w/ White* Blue w/ White*
Onan Generator	{ Red w/ White* Green w/ White* Blue w/ White* Brown*

* Multiple applications for this color

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WIRING COLOR SCHEMES

16 Gauge con't.

Hydro Hot	{ Black Green w/ Yellow Blue w/ White Blue w/ Black Purple Red w/ Yellow
Rear A/C to Hydro Hot.....	{ Gray w/ Yellow Gray
Keyless Door.....	{ Green w/ Yellow Yellow w/ Black
Air Seal	{ Green w/ Yellow Yellow w/ Black
Powertek Generator	{ Blue* Gray* Yellow* White*

* Multiple applications for this color

12 Gauge

Grounds	White
Living Room & Entryway Lights (HOT TO SWITCH)	Red
Living Room & Entryway Lights (SWITCHED)	Red w/ White
Bedroom Lights (HOT TO SWITCH).....	Orange
Bedroom Lights (SWITCHED)	Orange w/ White
Bathroom Lights (HOT TO SWITCH)	Brown
Bathroom Lights (SWITCHED).....	Brown w/ White
Kitchen Lights (HOT TO SWITCH)	Green
Kitchen Lights (HOT TO SWITCH W/2-6 VOLT).....	Gray
Kitchen Lights (HOT TO SWITCH W/SLIDE OUT)	Green
Kitchen Lights (SWITCHED)	Green w/ White

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WIRING COLOR SCHEMES

12 Gauge con't.

Wrap & Storage Compartment Lights.....	Black
TV and Stereo	Pink
Furnaces	Green w/ Black
3 Way Switches (COMMONS).....	Red w/ Black
Fantastic Vent and Water Heater	Brown w/ Black
Monitor Panel.....	Yellow
Refrigerator Controls	Blue w/ Yellow
Security Lights (HOT TO SWITCH)	Purple
Security Lights (SWITCHED).....	Purple w/ White
Slideout Module (HOT FEED – DOOR SIDE)	Gray w/ Red
Slideout Module (HOT FEED – OFF DOOR SIDE).....	Gray w/ White
Slideout Motor & Voice Module.....	{ Black w/ Yellow Red w/ Yellow
Baggage Doors	
	{ Green Blue
Slideout Lights (DOOR SIDE)	
Slideout Lights (OFF DOOR SIDE).....	Gray w/ Yellow
Slideout Lights (6V HI/LO).....	Green
Water Pump.....	Yellow w/ Black
Power Step Switch	Black w/ White
Electric Brakes (TANDEM AXLE).....	Blue
Awning	Red w/ Black

10 Gauge

Grounds	White
Living Room Entry Lights (HOT FEED).....	Red
Bedroom Lights (HOT FEED).....	Orange

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WIRING COLOR SCHEMES

10 Gauge con't.

Kitchen Lights (HOT FEED)	Green
Bathroom Lights (HOT FEED)	Brown
Freezer	Purple w/ Yellow
Power Step (HOT FEED)	Green w/ Black
Power Jacks	Yellow
Electric Brakes (TRI-AXLE)	Blue
Solar Prep (MOTORIZED)	Red w/ Yellow

8 Gauge

Grounds	White
Battery	Red
Converter	Black
Solar Prep(TOWABLE)	Green
400 Watt Inverter (CLASS A)	Red 6 GA Wire White 6 GA Wire

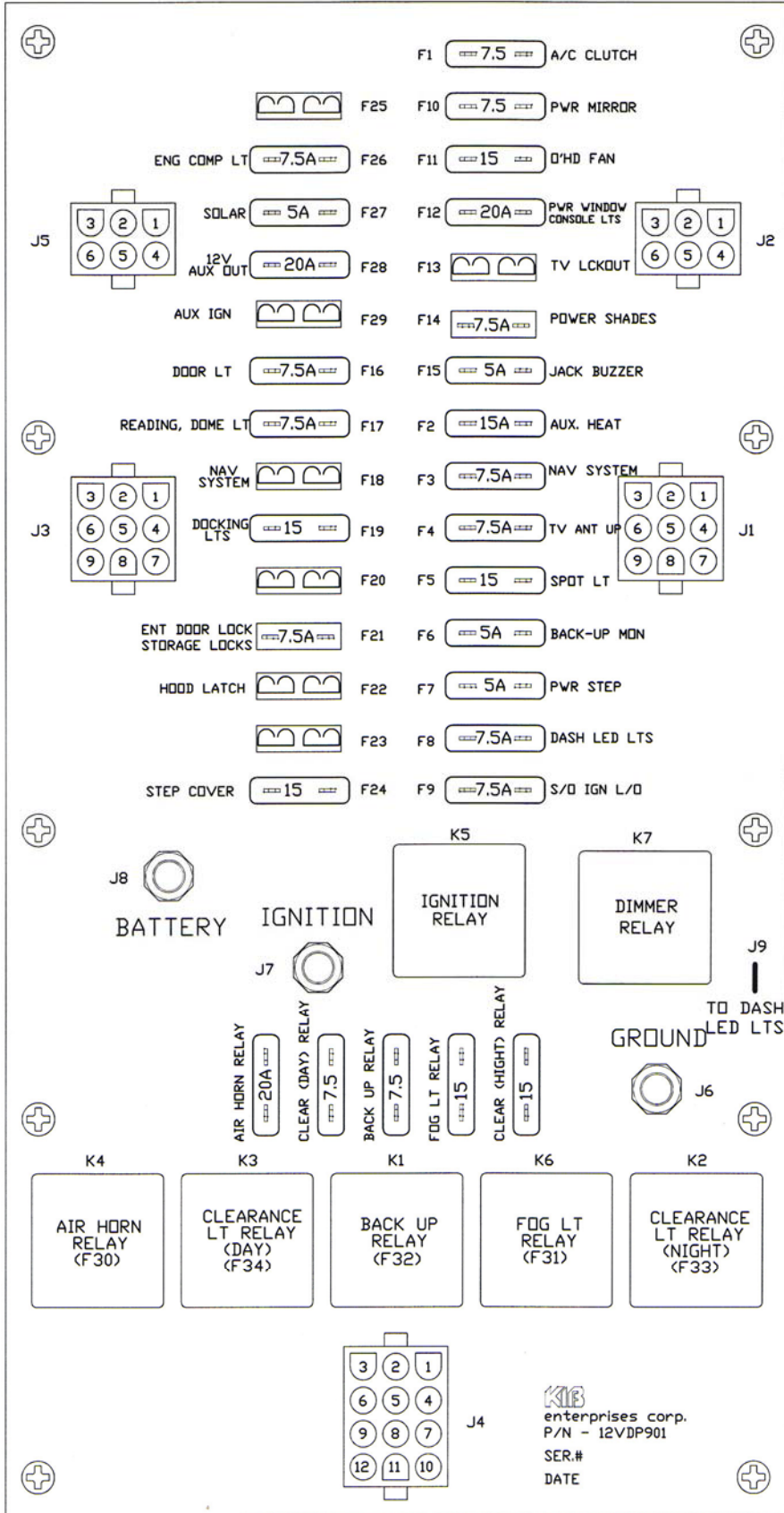
16 Gauge

LARSON MONITOR PANEL TANK HARNESS

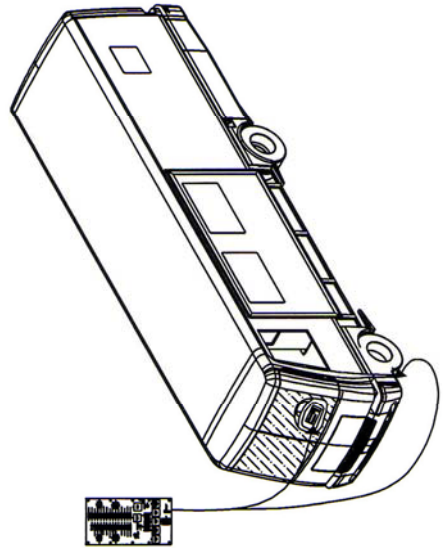
Fresh Water Tank	White* Gray w/ Black (replaces Red tank lead)* Black w/ Yellow (Replaces Blue tank Lead)*
Gray Water Tank	White* Green w/ White (replaces red tank lead)* Blue w/ Black (replaces blue tank lead)*
Black Water Tank	White* Red w/ White (Replaces red tank lead)* Blue w/ White (replaces blue tank lead)*

* multiple applications for this color

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NEWMAR
DASH FUSE
PANEL ALL
MOTORIZED
EXCEPT CS
AND BS

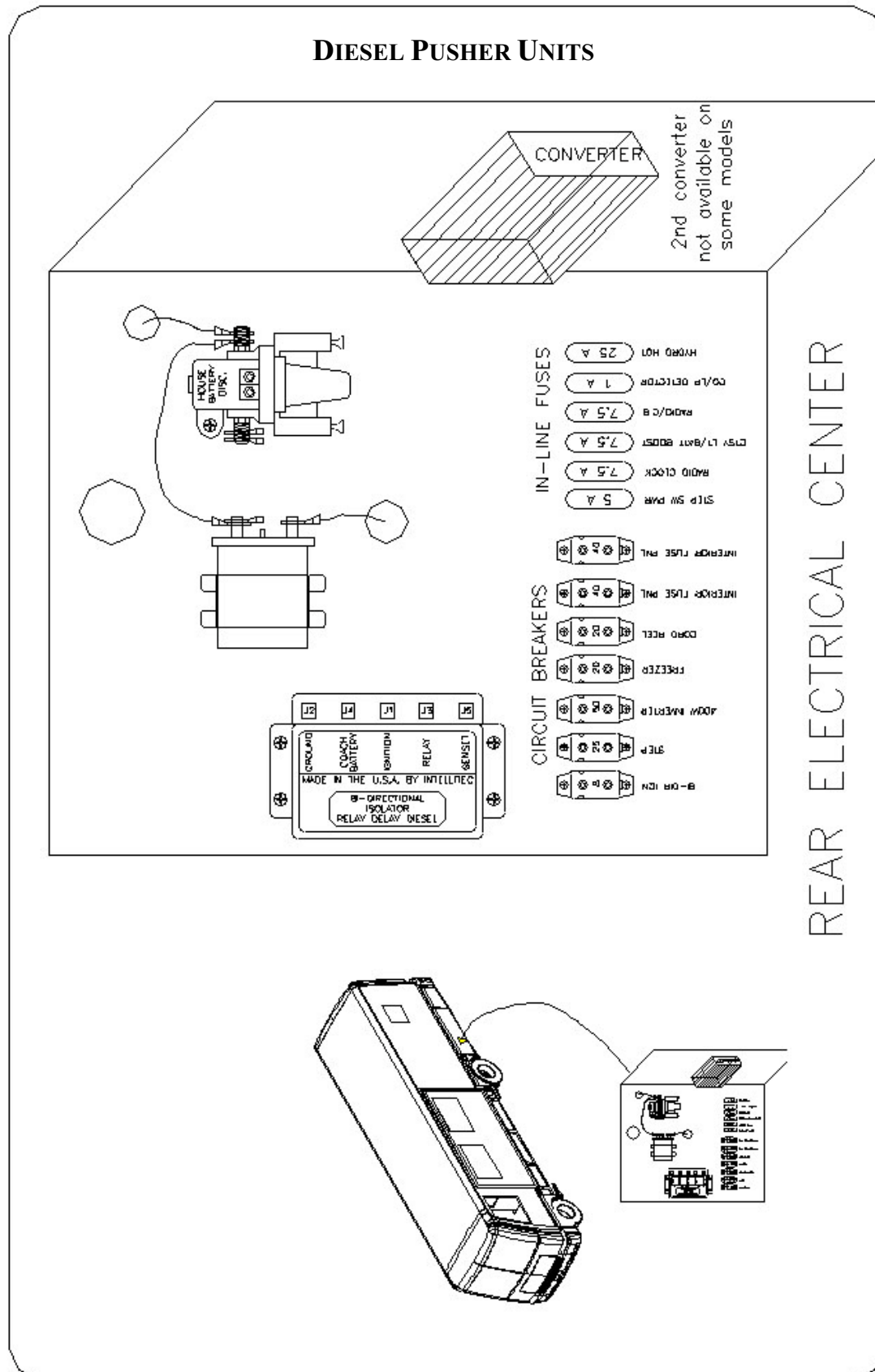


DASH WIRING DIAGRAM

DASH FUSE PNL



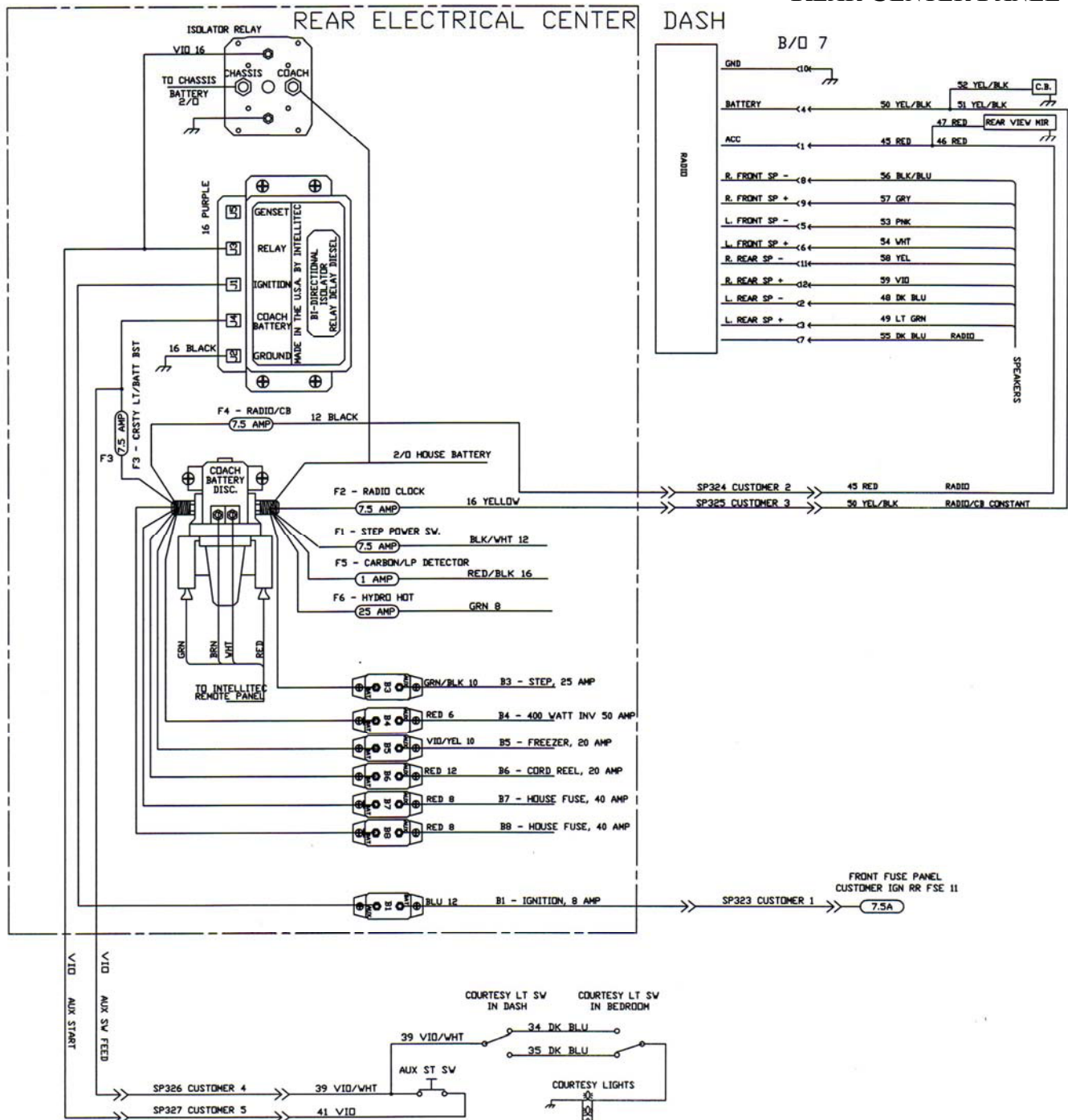
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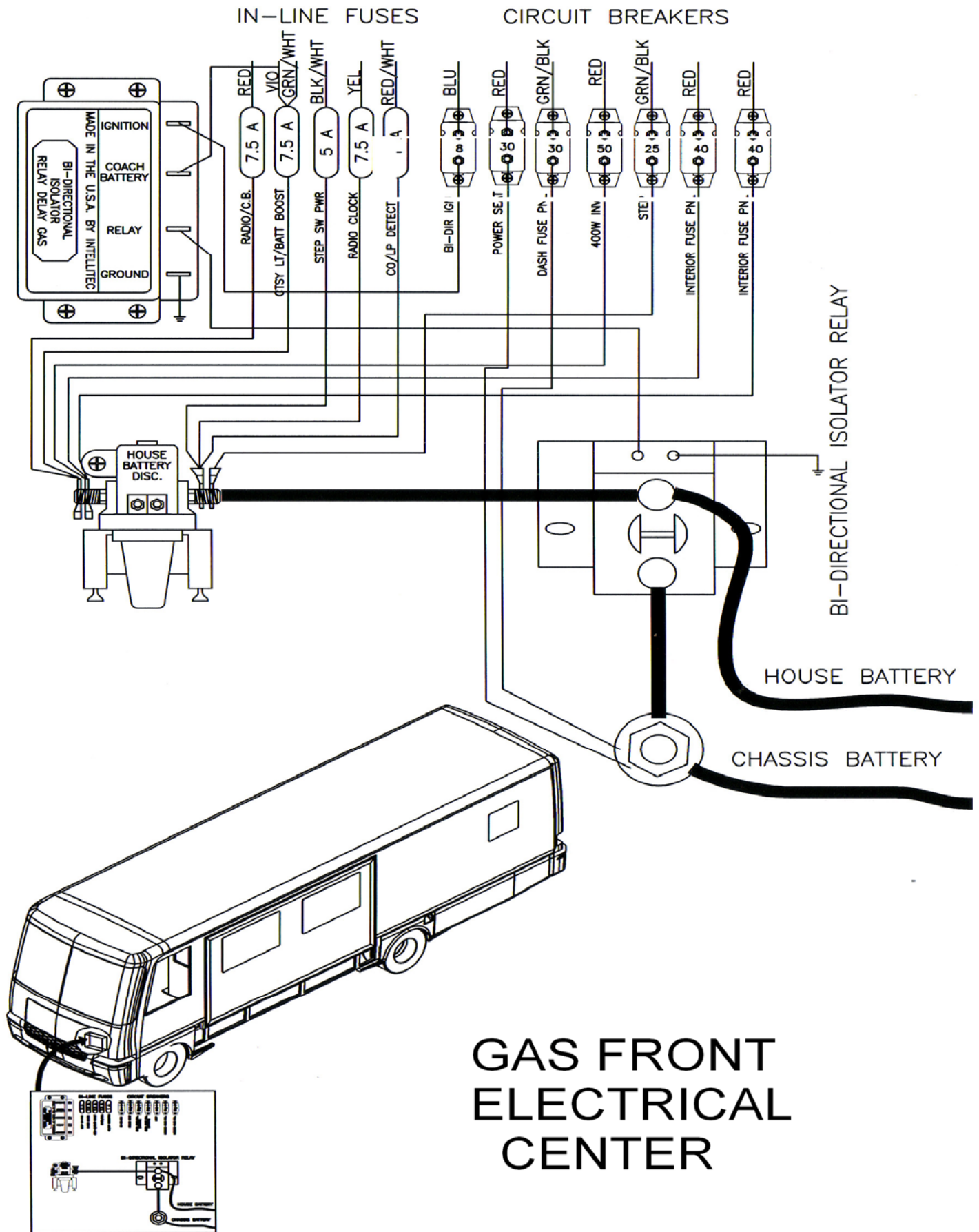
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Pusher Rear Electrical

DIESEL PUSHER REAR CENTER PANEL



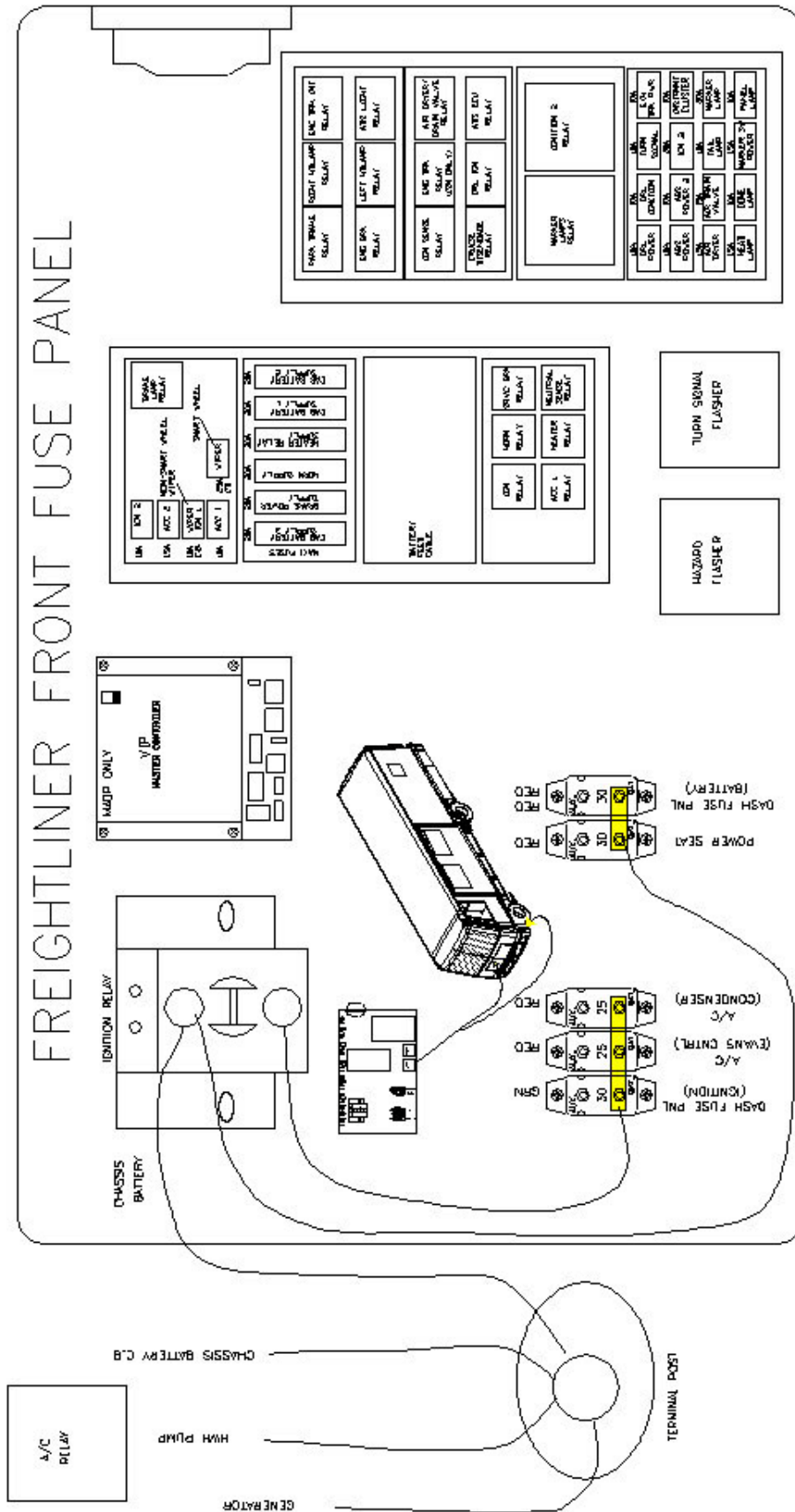
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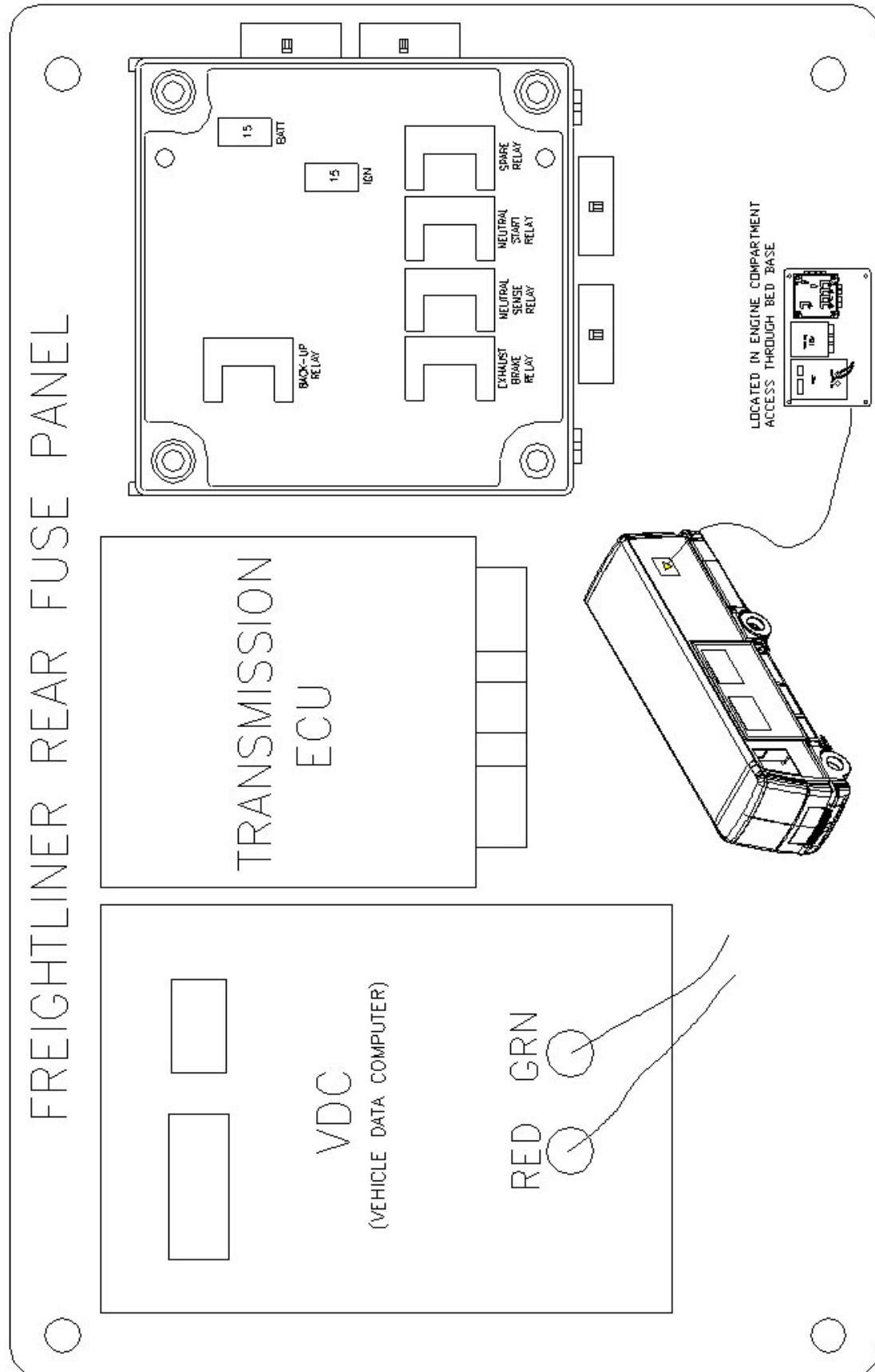
WIRING DIAGRAM FOR CSCA & BSCA



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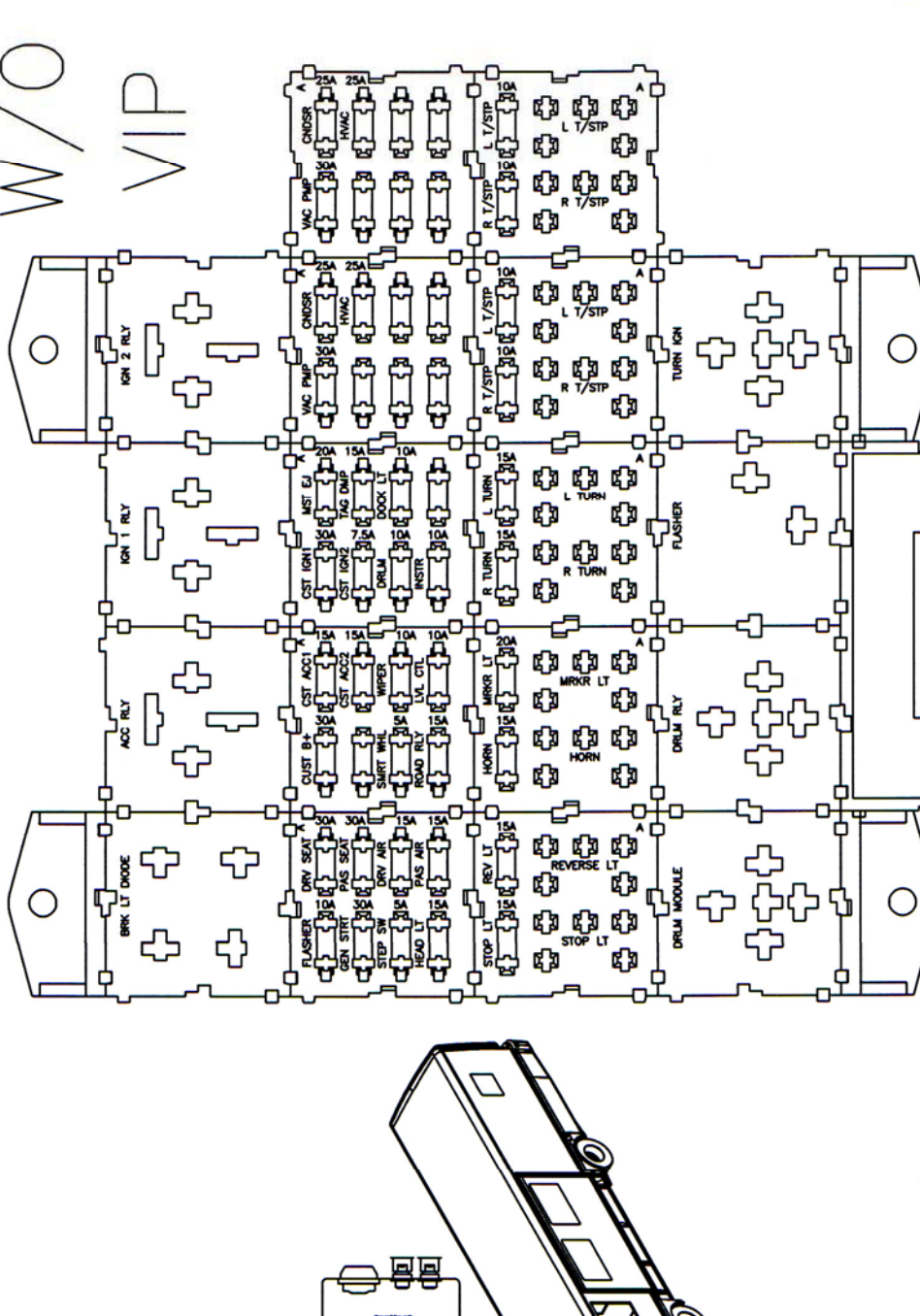


SPARTAN FRONT FUSE PANEL W/VIP



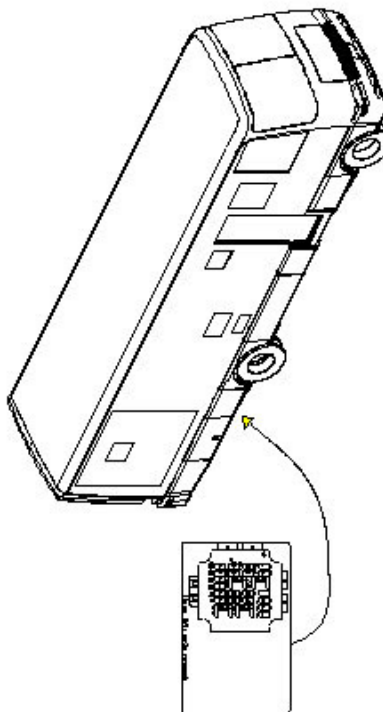
SPARTAN FRONT FUSE PANEL

W/O VIP



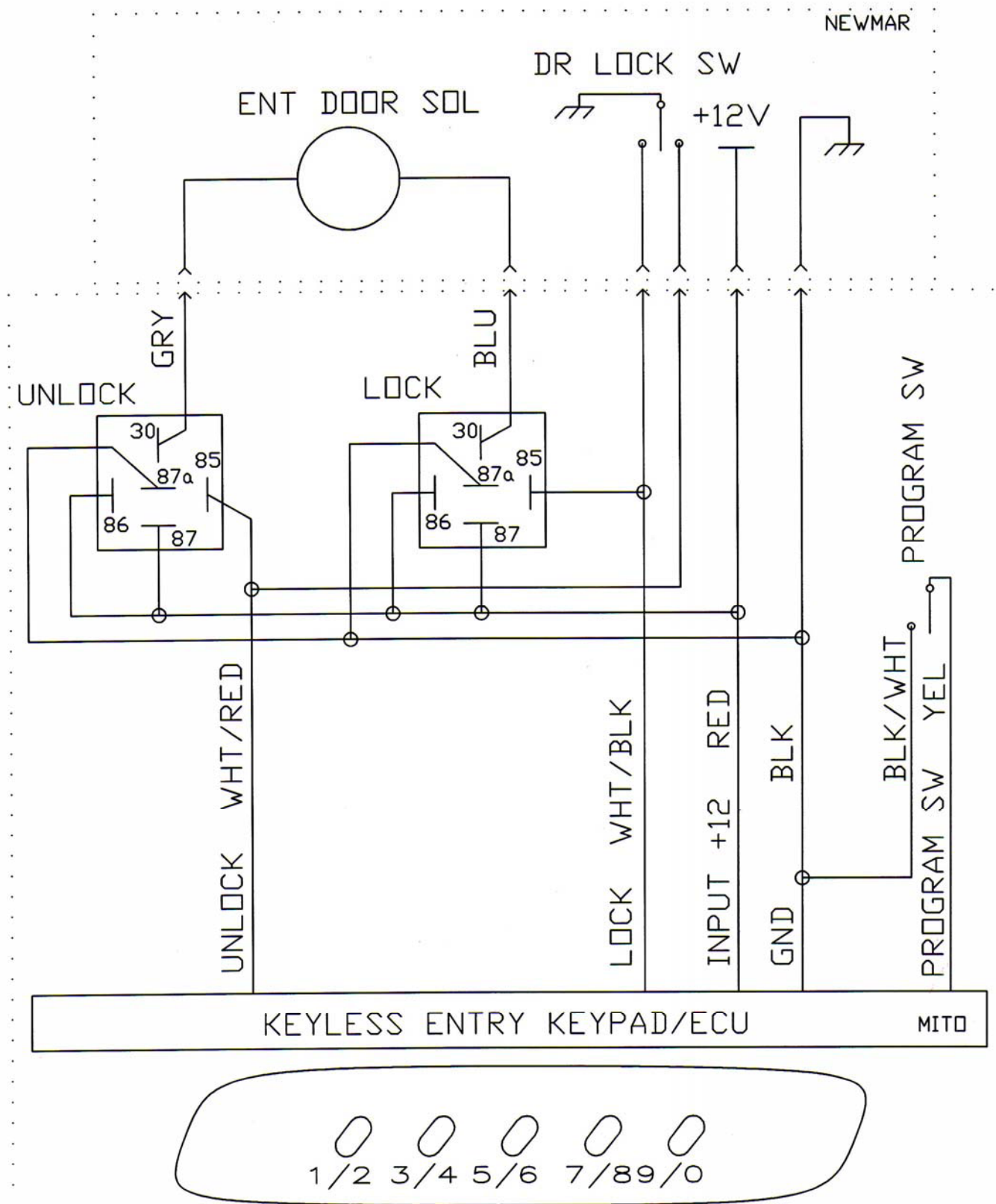
This diagram illustrates the front fuse panel of a Spartan vehicle, excluding the VIP configuration. The panel is organized into three main horizontal sections. The top section contains fuses for the engine and ignition system, including BRK LT DOOR, ACC RLY, IGN 1 RLY, and IGN 2 RLY. The middle section is dedicated to interior lighting and accessories, featuring fuses for FLASHER, GEN STRT, PAS SEAT, STEP SW, HEAD LT, PAS AIR, ROAD RLY, LVL CT, INSTR, DOOR LT, and TURN. The bottom section manages the vehicle's electrical systems, including fuses for FLASHER, GEN STRT, PAS SEAT, STEP SW, HEAD LT, PAS AIR, ROAD RLY, LVL CT, INSTR, DOOR LT, and TURN. The diagram also shows the location of the fuse panel within the vehicle's chassis, with a detailed view of the fuse block and its connection to the vehicle's battery.

SPARTAN REAR FUSE PANEL

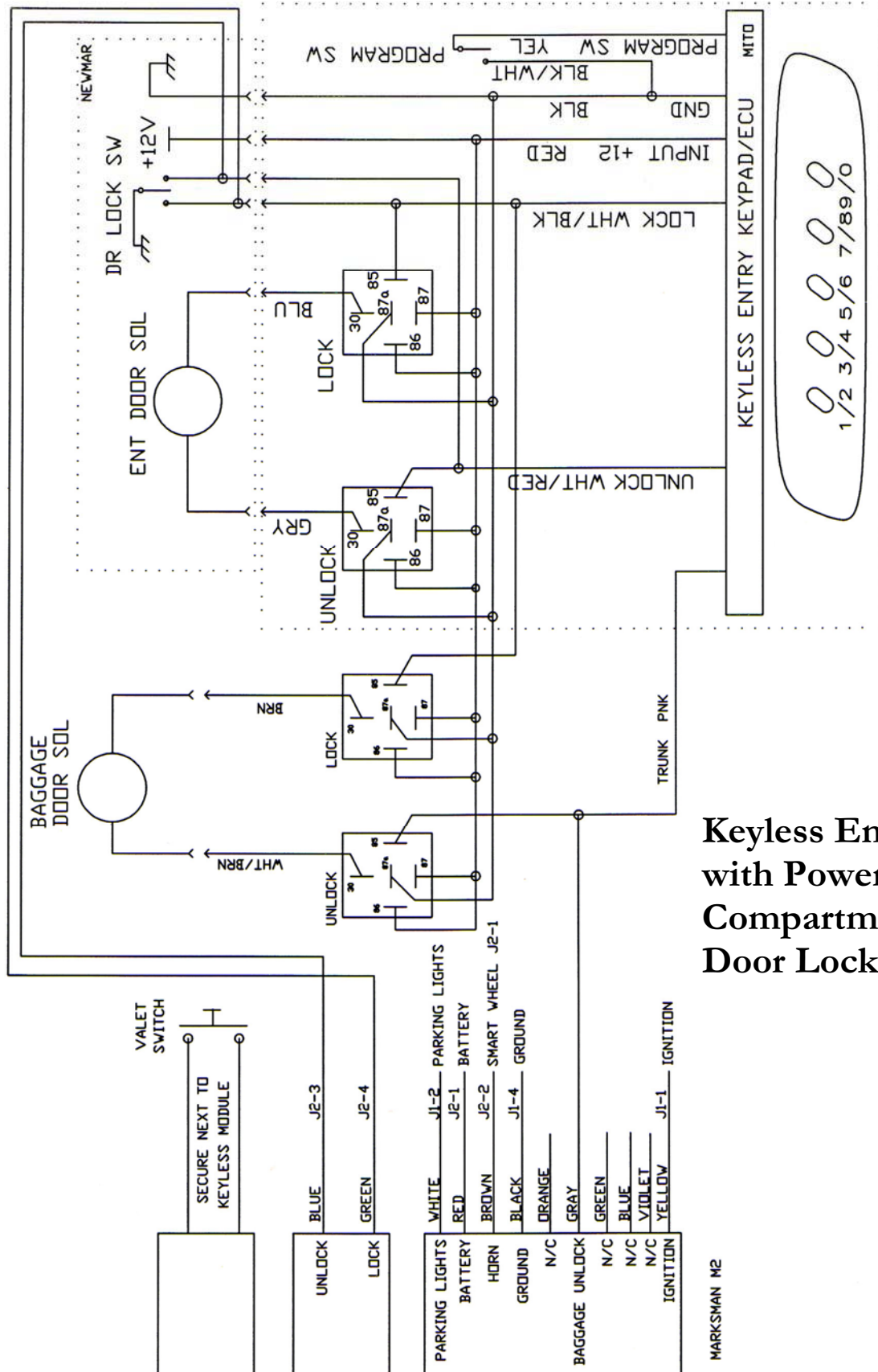


2006 & 2007 Low Voltage

Keyless Entry Only

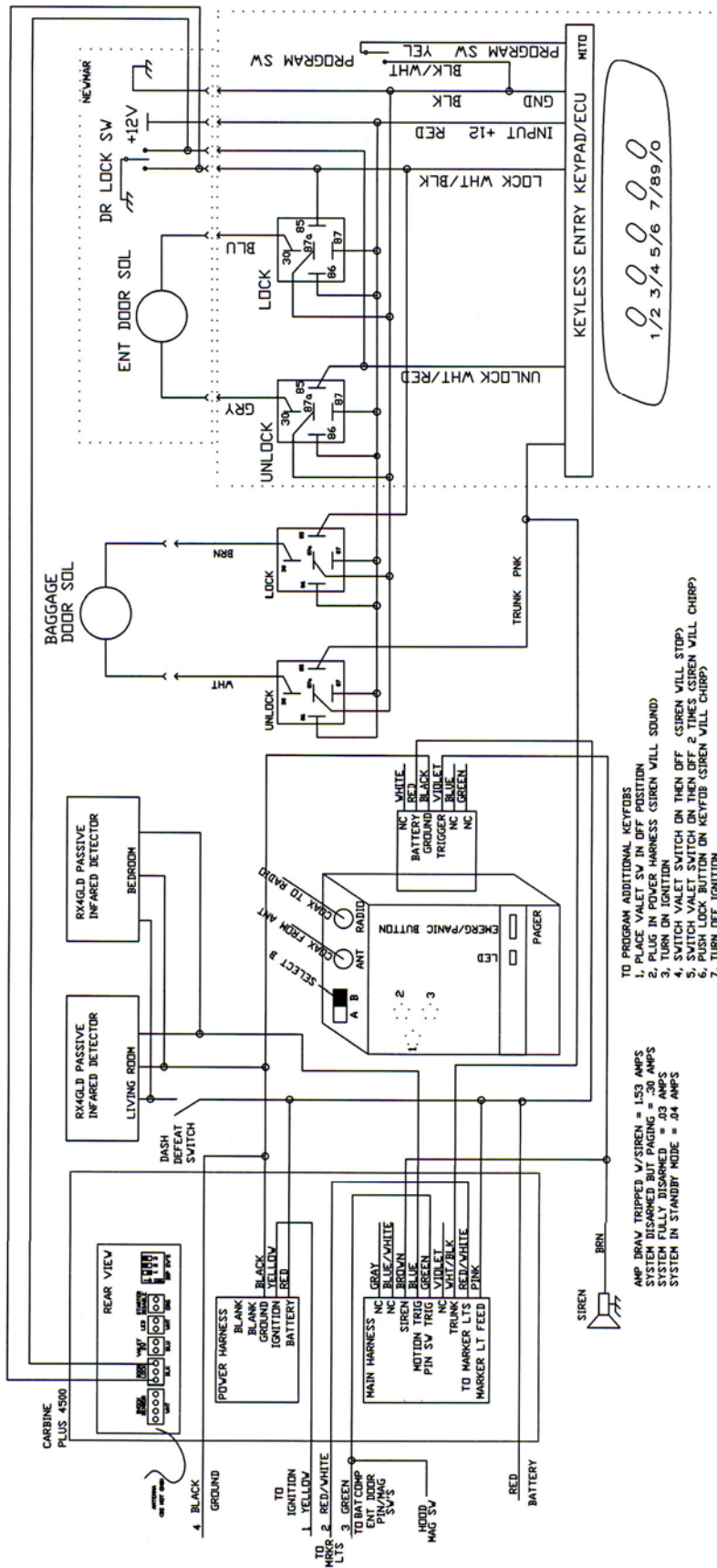


2006 & 2007 Low Voltage



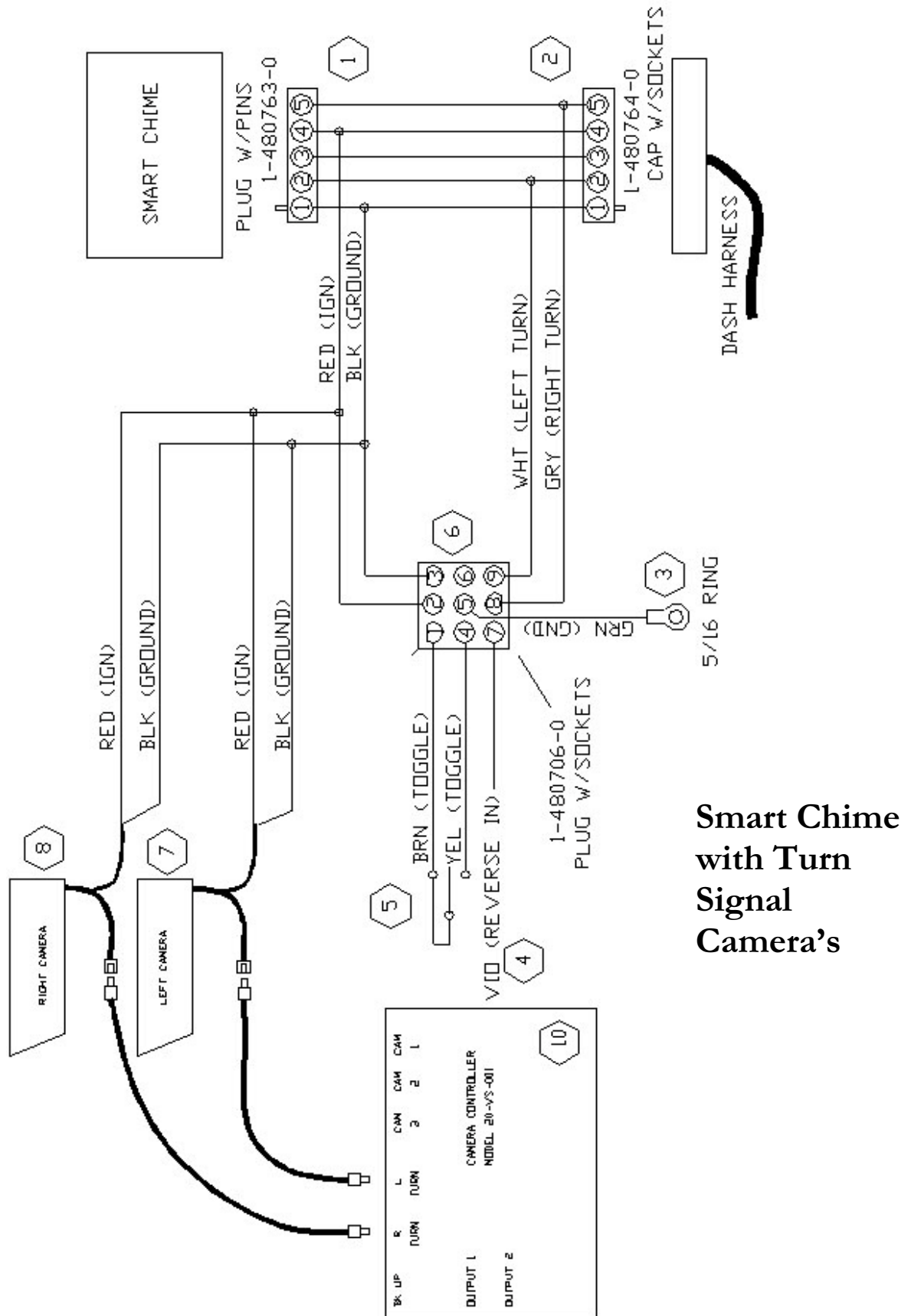
Keyless Entry with Power Compartment Door Locks

2006 & 2007 Low Voltage

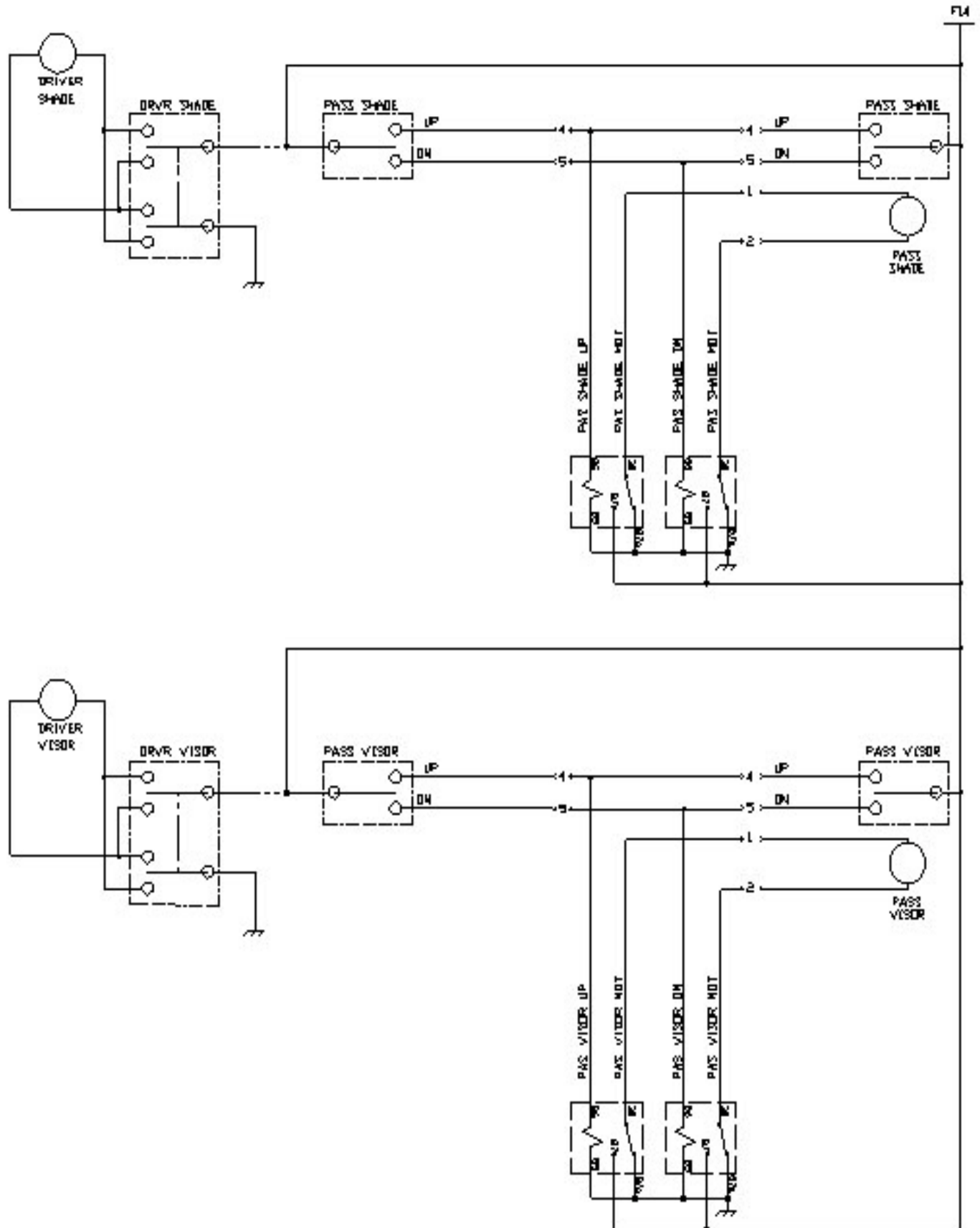


Keyless Entry with Power Compartment Door Locks and Security System

2006 & 2007 Low Voltage

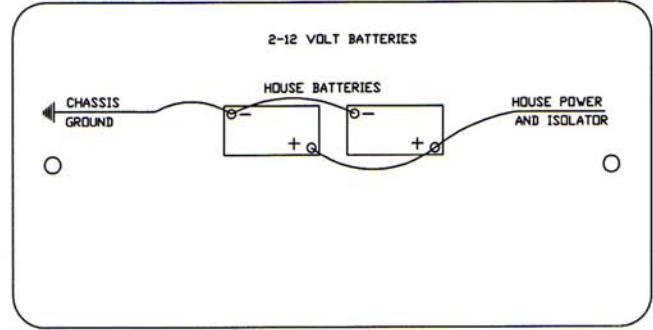
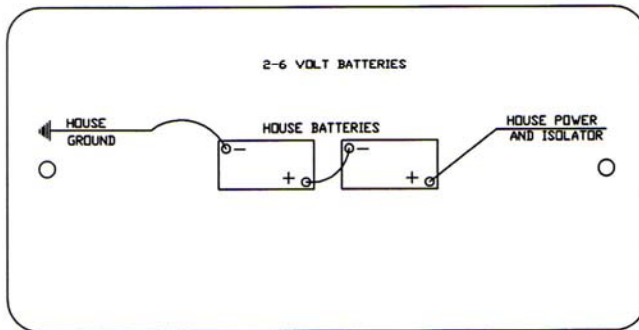
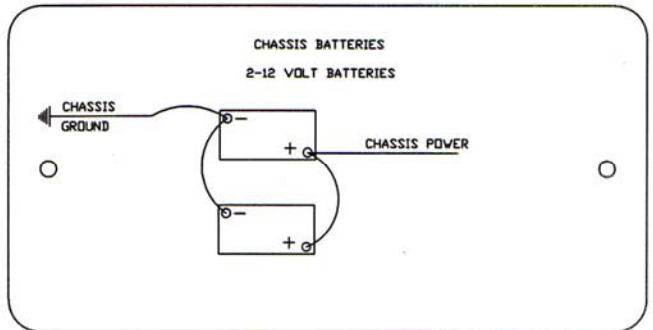
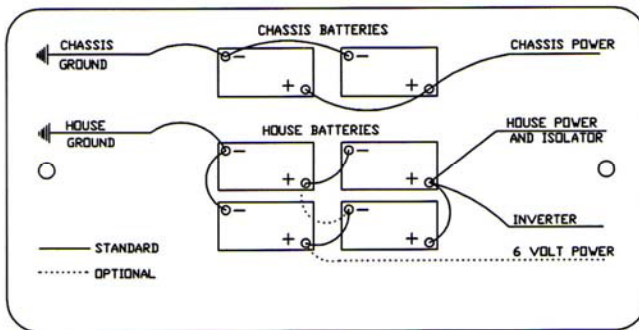
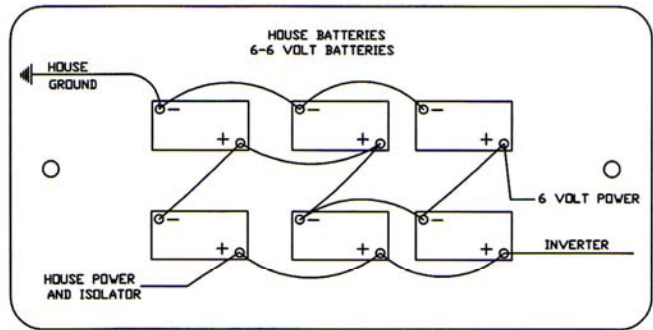
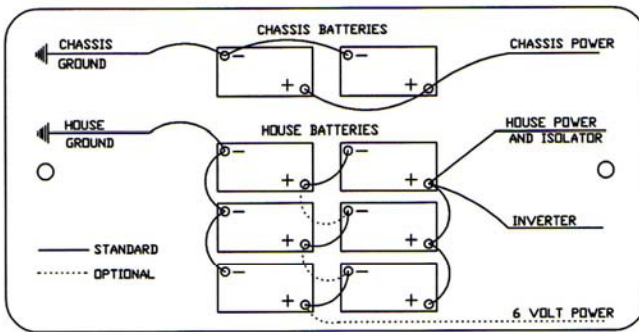


2006 & 2007 Low Voltage



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Notice: there may be more wires on any given post.



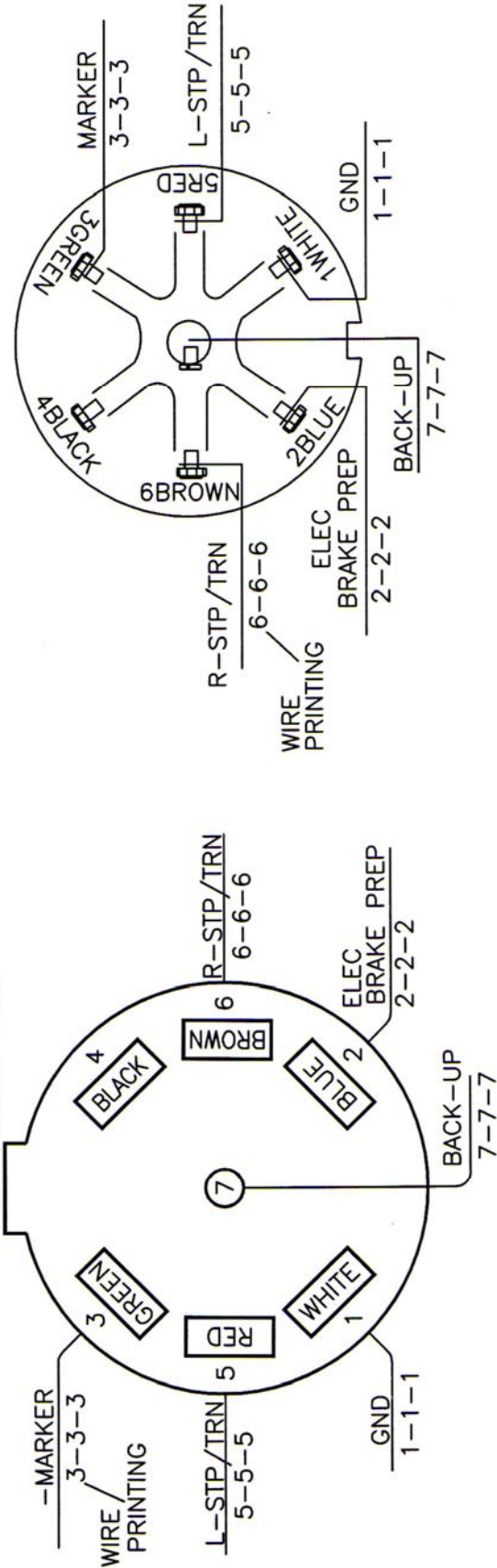
2006 & 2007 Low Voltage

14 GA. BLACK/14 GA. ORANGE
WILL BE BEHIND TOW CONNECTION
IN THE CONDUIT, TAPED TOGETHER.
RUNS TO FRONT BY DASH FUSE PANEL.

7-CIRCUIT RECEPTACLE
VIEW LOOKING AT BACKSIDE OF
TOW VEHICLE RECEPTACLE

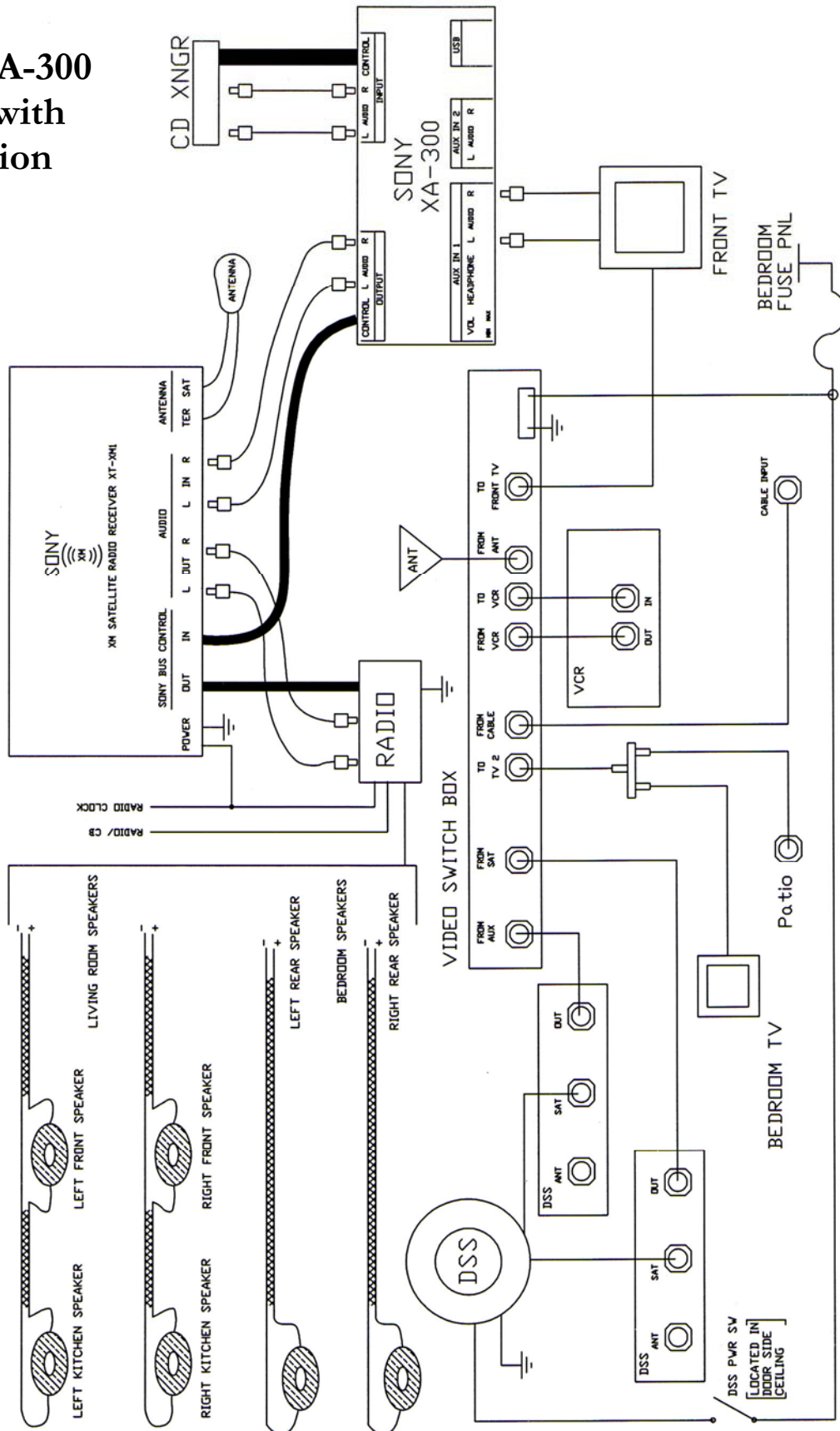
7-CIRCUIT RECEPTACLE
VIEW LOOKING INTO TOW VEHICLE RECEPTACLE

AUX. TOW
CONNECTOR "PREP"

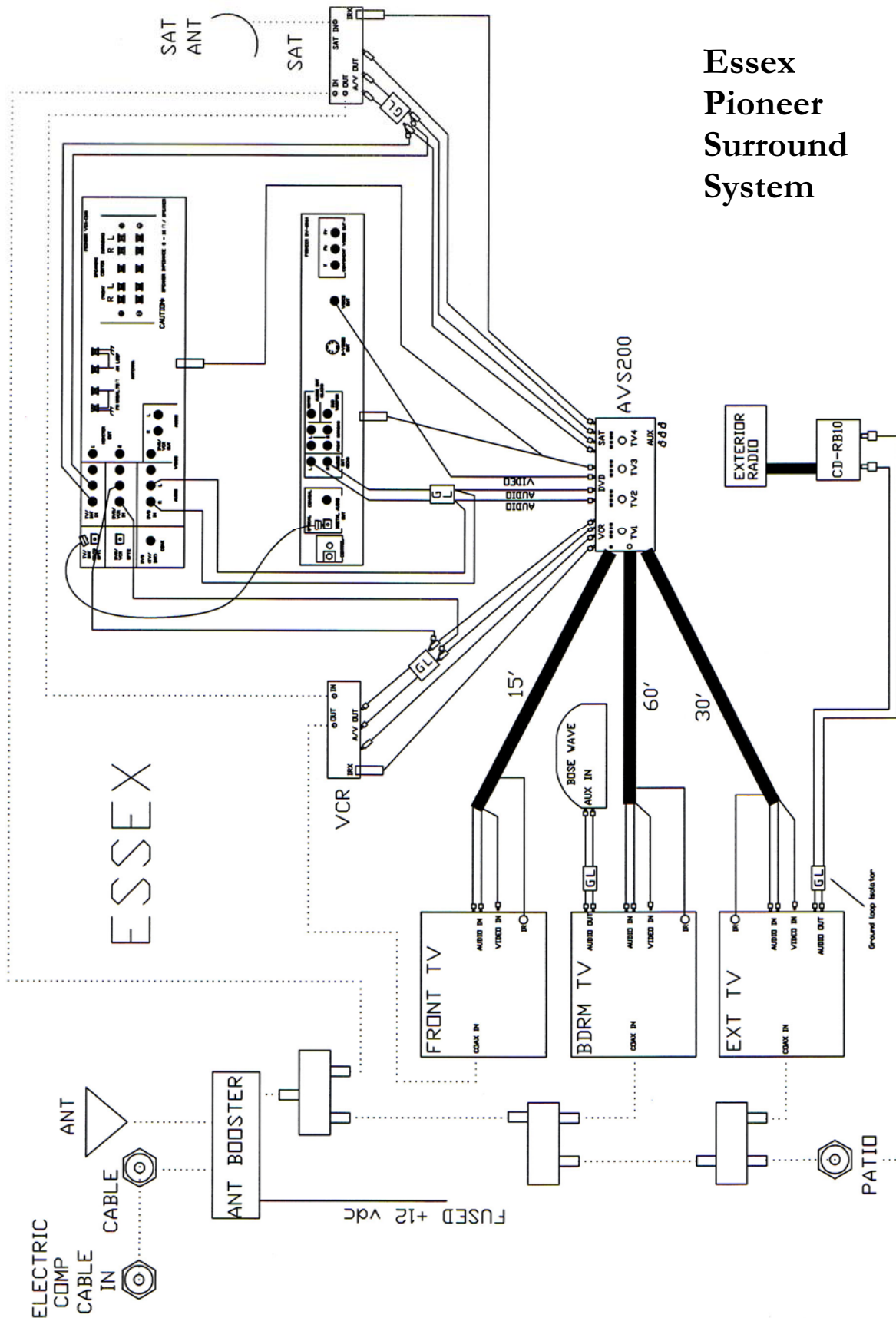


2006 & 2007 Low Voltage

Sony XA-300 Stereo with Television



2006 & 2007 Low Voltage



2006 & 2007 Low Voltage

Visteon Radio w/Auxiliary Input Adapter

QUICK OPERATION INSTRUCTIONS

How to activate the Auxiliary Function: (Television Audio)

1. Without a CD changer and with No CD in the Radio
 - Press the **CD** button once to activate the Auxiliary control.
2. Without a CD changer and with a CD in the Radio
 - Press the **CD** button once to activate the CD in the radio.
 - Press the **CD** button again to activate the Auxiliary control.
 - To switch back to the CD in the radio from the CD changer or auxiliary mode, press the **CD** button again.
3. With a CD changer attached but no CD in the Radio
 - Press the **CD** button to activate the CD changer control.
 - Press the **SEEK** control once to the right and then once to the left to activate the Auxiliary control.
 - To switch back to the CD changer press the **SEEK** control once tot the right and then once to the left.
4. With a CD changer attached and with a CD in the Radio
 - Press the **CD** button to activate the CD in the radio.
 - Press the **CD** button again to activate the CD changer control.
 - Press the **SEEK** control once to the right and then once to the left to activate the Auxiliary control.
 - To switch back to the CD changer press the **SEEK** control once tot the right and then once to the left.
 - To switch back to the CD in the radio from the CD changer or auxiliary mode, press the **CD** button again.

This was started approximately August 25, 2003.

Visteon Radio with tape deck and remote CD changer and Blitz auxiliary audio input module

When in CD mode, if CD cartridge (magazine) is accessed, the radio may lock up. To reset, you must remove the radio and radio clock fuse. Upon re-installing the fuses lock-up should be released.

2006 & 2007 Low Voltage

REAR VIEW MIRROR / COMPASS OPERATION & CALIBRATION INSTRUCTIONS

When installing the Compass/Temperature/Mirror, if for any reason the temperature sensor line is interrupted while the mirror is on, (temperature sensor not plugged in), the mirror will default to a very low temperature reading. And, if the temperature line is shorted in any instance, the temperature will go to a very high reading. To correct this condition, make sure everything is hooked up correctly. The mirror has a built in auto reset. If the power to the mirror is turned off for two (2) hours, or the mirror turned on for 20 minutes, the temperature reading will normalize.

NOTE: IT IS BEST TO WIRE EVERYTHING, INCLUDING THE TEMPERATURE SENSOR, BEFORE APPLYING POWER TO THE MIRROR.

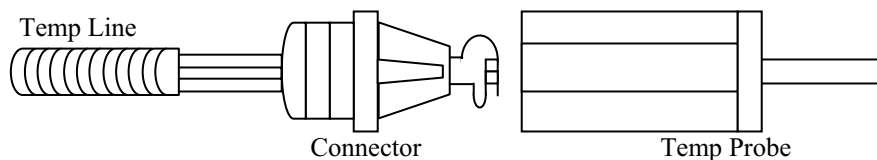
To test Mirror Head:

It is essential to use a good grade RESISTOR. First, remove the temperature sensor. Next, attach the 10K RESISTOR. Turn power supply on, check the reading, turn power off. Remove RES and reattach at the back of the mirror, across the green wires. Make sure the ignition is off when attaching and removing RES. The same reading ($78^{\circ} \pm 1^{\circ}$) should be at, both, the sensor end and at the back of the mirror.

ONLY TURN POWER ON WHEN THE RESISTOR IS CONNECTED. THIS APPLIES TO TEST #1 AND TEST #2

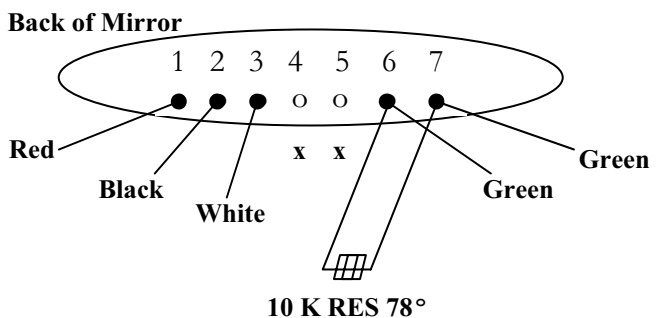
Test # 1. Remove the sensor, install the 10K RESISTOR. Test should read 78°F . Remove the RESISTOR and proceed to test #2.

10 K RESISTOR = $78^{\circ} \pm 1^{\circ}$



Temperature sensor must be unplugged during Test #1 & Test #2

Test # 2. Attach 10 K RESISTOR as shown. This should provide a reading of 78° , $\pm 1^{\circ}\text{F}$.

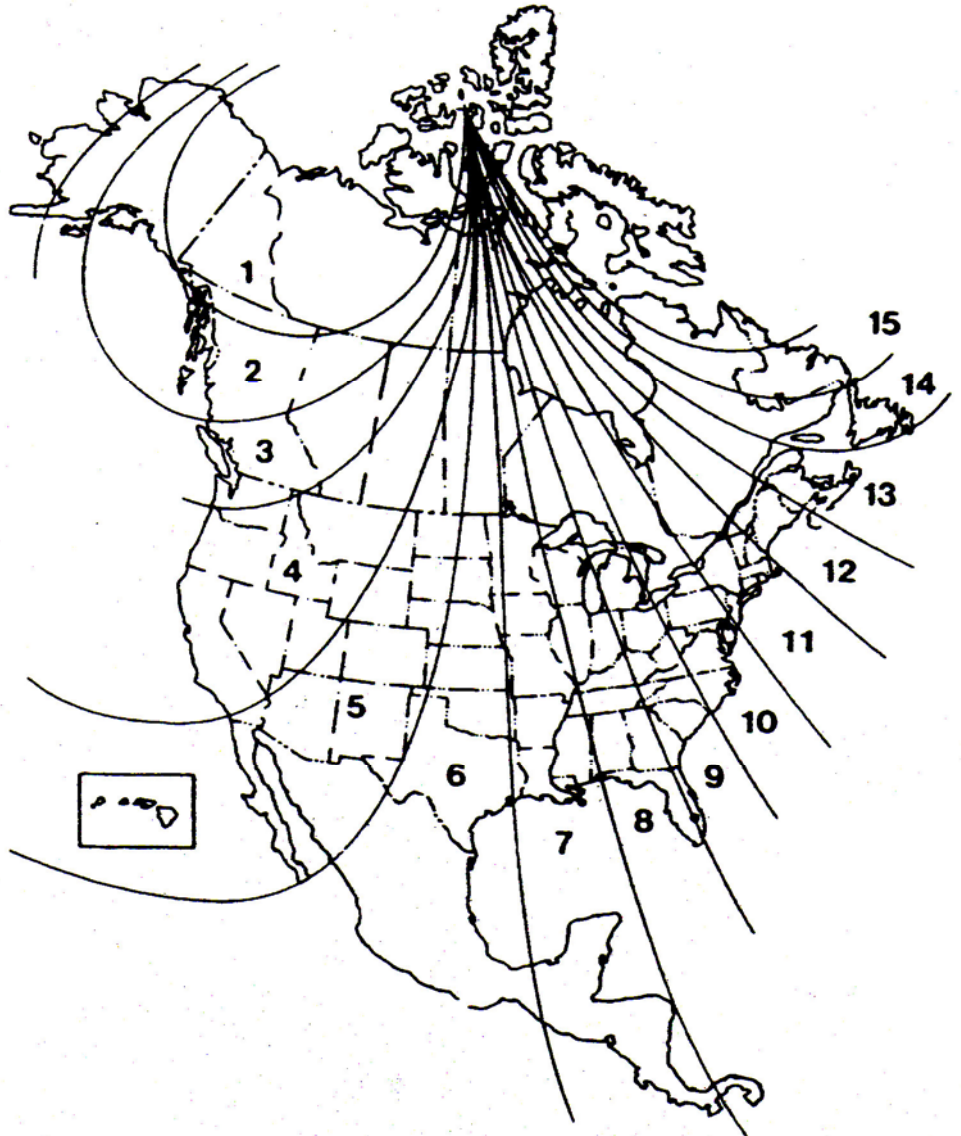


2006 & 2007 Low Voltage

REAR VIEW MIRROR / COMPASS OPERATION & CALIBRATION INSTRUCTIONS

To calibrate, choose the proper zone between 1 and 15 (see map guide on hang tag included in box).

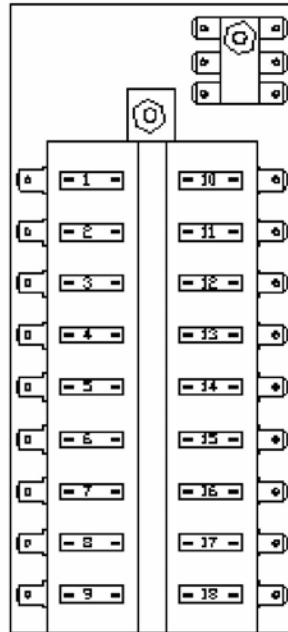
1. Press and hold the compass button until a zone number appears on the display. If the number for your zone appears, toggle the compass button several times until it goes through to 15, back to 1 and then again to the number for your zone. Release the toggle button once your zone number appears.
2. Once the display goes blank, immediately press and hold the compass button again. Do not release the button. Continue to hold the compass button until a large "C" or CAL' appears on the display. At this point, you may release the Compass button.
3. Next, drive the vehicle in a 50' to 100' diameter circle, counter clockwise at the same speed as the second hand on a clock, approximately 60 seconds per circle. Complete up to three (3) circles. The "C" or 'CAL' will disappear and the correct direction will display. Calibration is now complete.



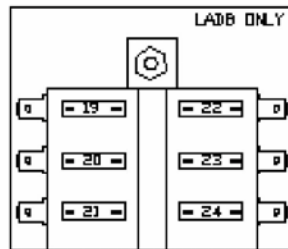
Note: If you don't have a large enough area to drive in a 50' to 100' circle, with the unit outside, and the ignition on, remove the mirror and turn the mirror counter clock wise at 60 seconds per circle, completing up to three (3) circles.

2006 & 2007 Low Voltage

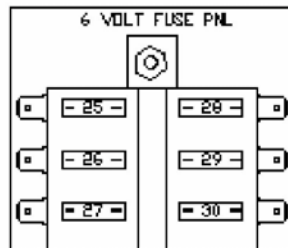
HOUSE FUSE PANEL



FUSE #	RATING (AMPS)	DESCRIPTION
1	20	TV/STEREO
2	20	KITCHEN LIGHTS
3	20	BEDROOM LIGHTS
4	20	SECURITY LIGHTS
5	20	WRAP LIGHTS
6	20	SLIDE-OUT LIGHTS
7	1	C.O. / LP DETECTORS
8	5	REFRIGERATOR
9	7.5	SATELLITE
10	20	FURNACE
11	20	LIVING ROOM/ENTRY LIGHTS
12	20	BATHROOM LIGHTS/FAN
13	40	MONITOR PANEL/ WATER PUMP
14	20	SLIDE-OUT MOTORS
15	7.5	FANTASTIC VENT/ WATER HEATER
16	7.5	AIR CONDITIONER CONTROLS
17	20	AWNING
18	7.5	ENERGY MANAGEMENT SYSTEM

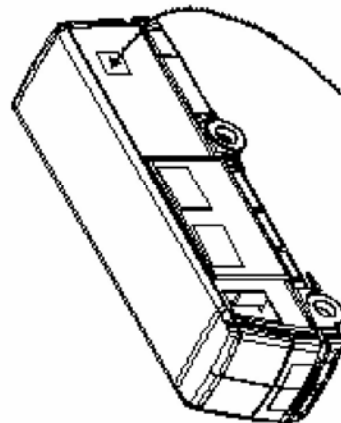


LA2B ONLY		
19	20	LIVING ROOM LTS
20	20	KITCHEN LTS
21	7.5	AUTO GEN (EARLY 2006 ONLY)
22	20	SOFA
23	20	SLIDE-OUT LTS
24	20	BED LIFT



6 VOLT FUSE PNL (LA2B/KADP ONLY)		
25	20	LIVING ROOM LTS
26	20	KITCHEN LTS
27	20	BEDROOM LTS
28	20	LIVING ROOM LTS
29	20	KITCHEN LTS
30	20	BEDROOM LTS

INTERIOR FUSE PNL

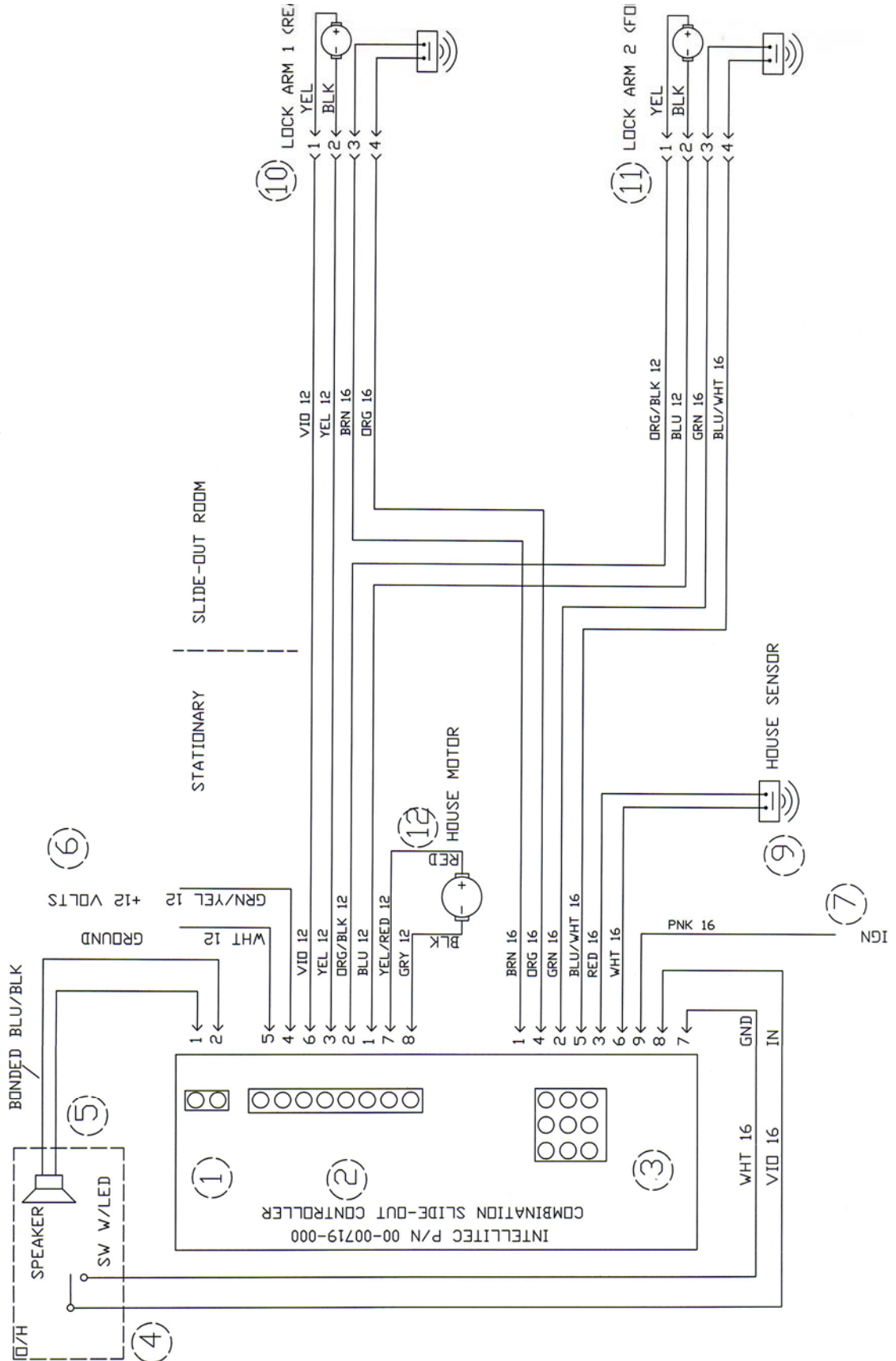


LOCATED IN BEDROOM



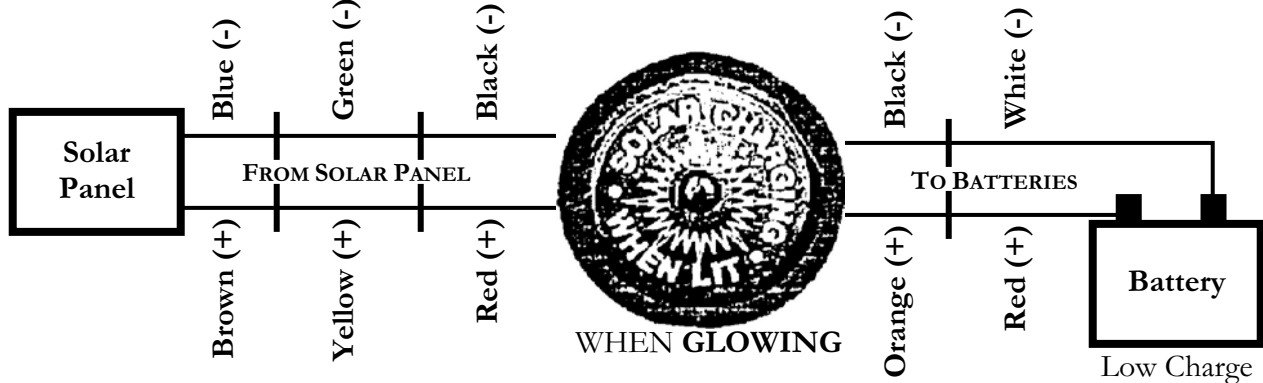
2006 & 2007 Low Voltage

SLIDE OUT CONTROLLER W/POWER LOCK ARMS

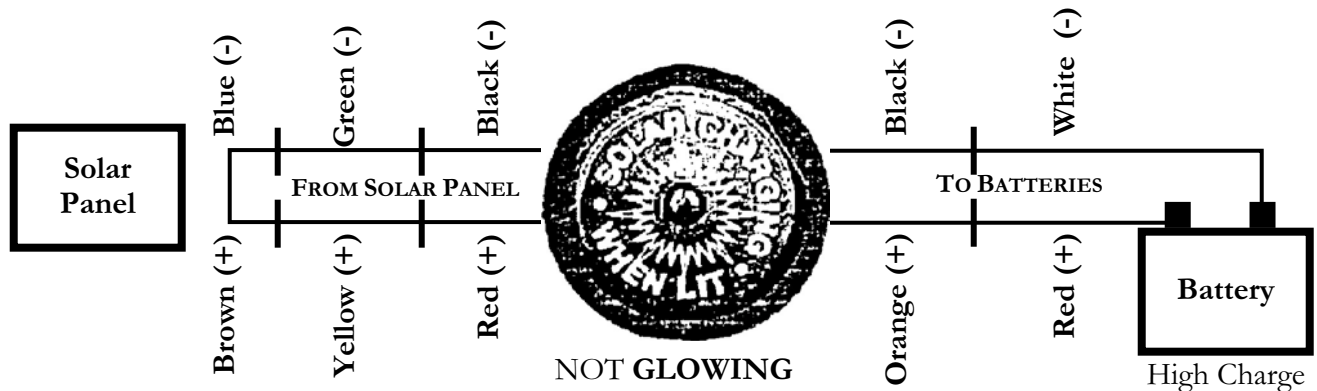


2006 & 2007 Low Voltage

Solar Panel Information



The solar charge indicator will **GLOW** as power is flowing from the solar panel to the battery. The solar panel voltage must be higher than the battery and must produce at least 100 milliamps of 12V DC power to turn on the “LED” light. A 10 watt solar panel will generate about 1000 milliamps or 1 amp of 12V DC power at full output. This amount of power will help keep the battery from being drawn to low when the RV is parked for long periods of time. What this means is that batteries will last longer and the battery electrolyte will not stagnate and cause damage to the batteries.



When the battery will not take any more power from the solar panel, the solar charging indicator light will dim and **DARKEN**. A dark “LED” light means that the battery is charged and that the solar panel job is complete.

BATTERY INFORMATION

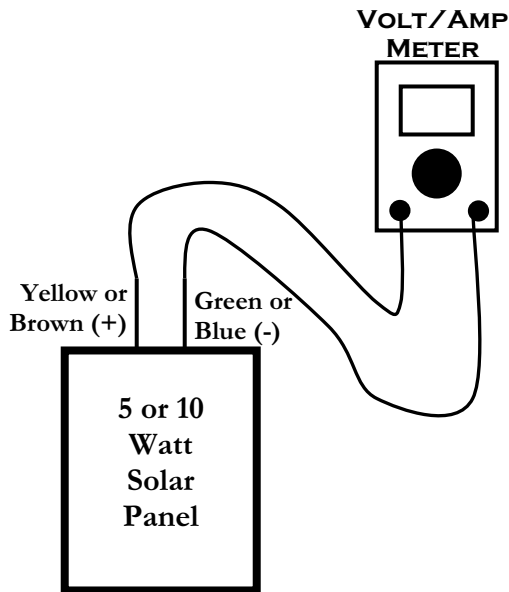
BATTERY VOLTAGE		% OF BATTERY CHARGE
12.7		100%
12.4		75%
12.2		50%
12.0		25%
11.9		0%

BATTERY TIPS

- Check the water level at least once every 60 days, more often in summer months.
- When working on batteries, always wear protective clothing and eye wear.

2006 & 2007 Low Voltage

Solar Panel Information



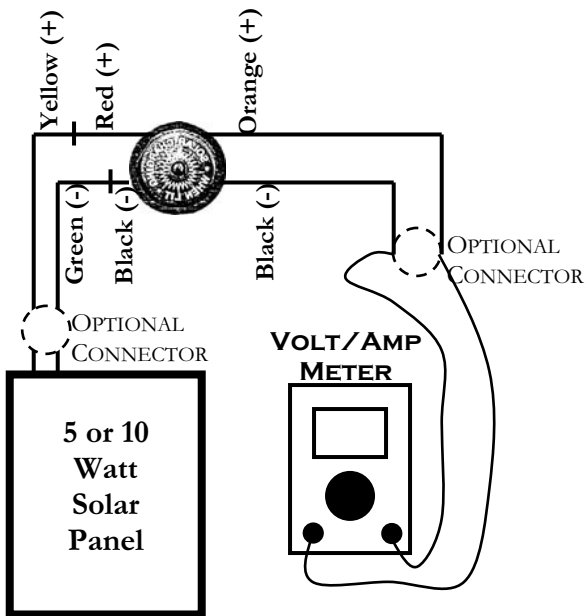
VOLTAGE

This is the solar panel test for VOLTAGE. First, disconnect the solar panel from the ILW-1. This is the Red and Black connector. Set the volt meter for 200 volts DC. Put the (VM) positive (+) probe on the red solar terminal and the negative (-) probe on the black connector. The panel voltage should be between 17 to 22 volts DC in full sun. This tells you that the solar panel is connected correctly.. The power test will tell you if it is putting out power.

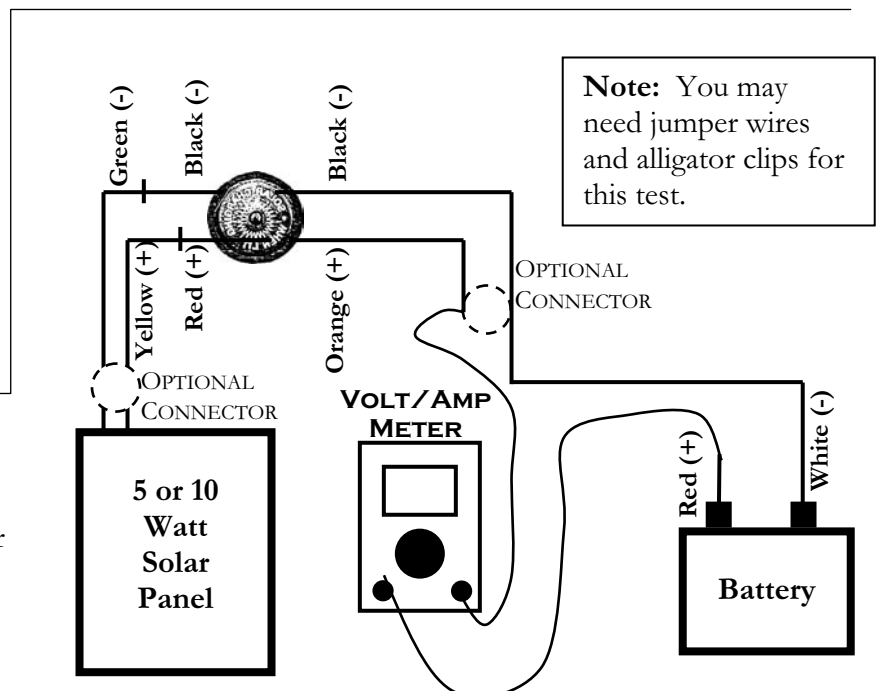
AMPERAGE

This is the solar panel test for POWER. First, disconnect the solar panel from the ILW-1. This is the Red and Black connector. Set the volt meter for 2 or 10 amps DC. Put the (VM) positive (+) probe on the red solar terminal and the negative (-) probe on the black connector. The panel current (amps) should be between 250 to 800 milliamps in full sun. This tells you that the solar panel is connected correctly and producing charging power

THE ILW-1 WILL GLOW DIMMER AND DARKEN WHEN THE BATTERIES ARE FULLY CHARGED.



This is a test for the ILW-1, to make sure it is working properly. Disconnect the battery from the ILW-1 and place the positive (+) probe in the Orange connector and the negative (-) probe in the black connector. Perform both of the tests as described above. The voltage will be about two (2) volts lower because of the blocking diodes, but the current should be the same.



Power test from the solar panel to the battery. Put the volt meter to the 2 or 10 amp DC setting. Connect the positive (+) probe to the (+) optional Orange connector wire and the negative (-) probe to the Red positive wire from the battery. This test tells you charging power is flowing to the battery from the solar panel.