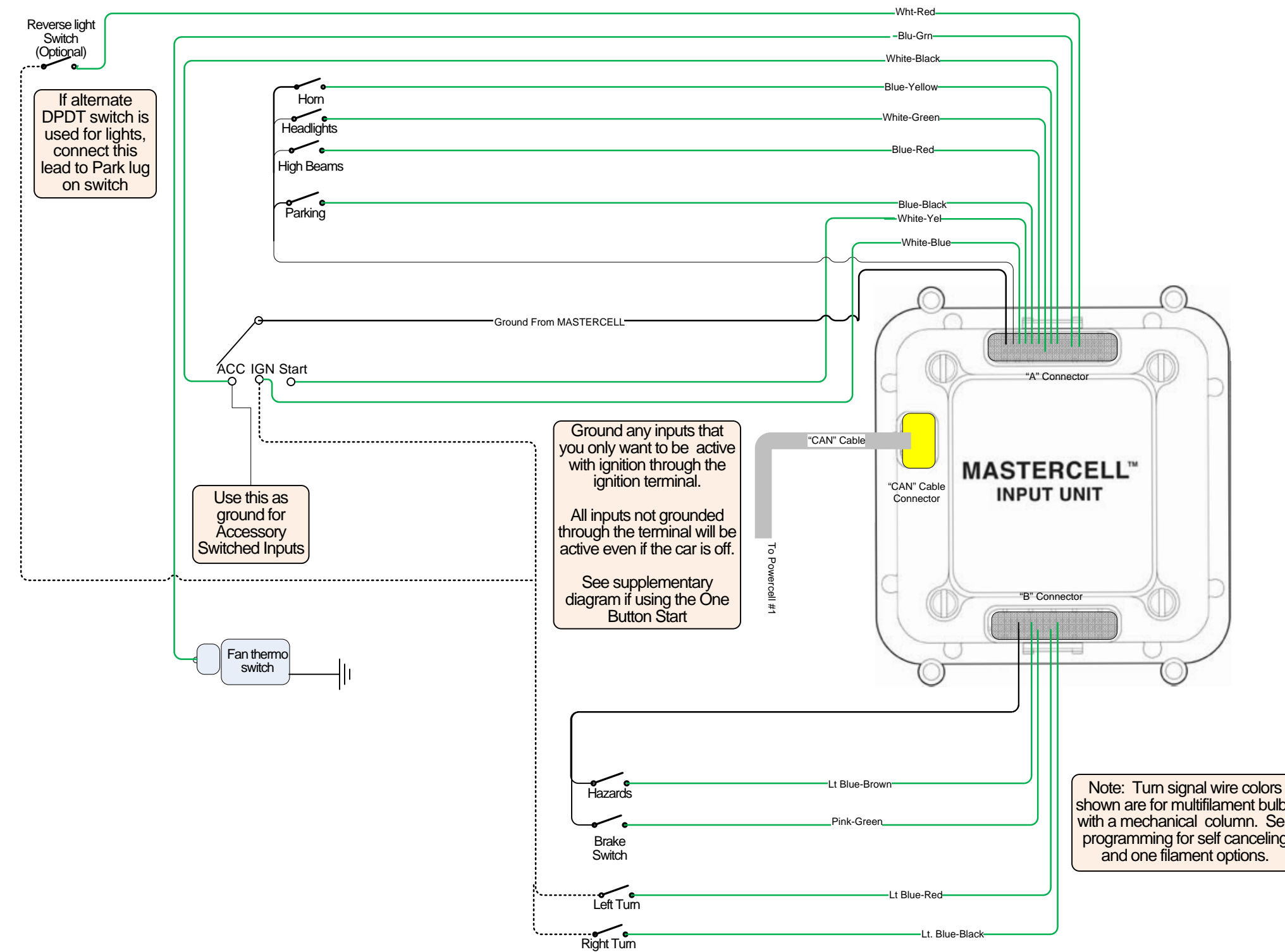
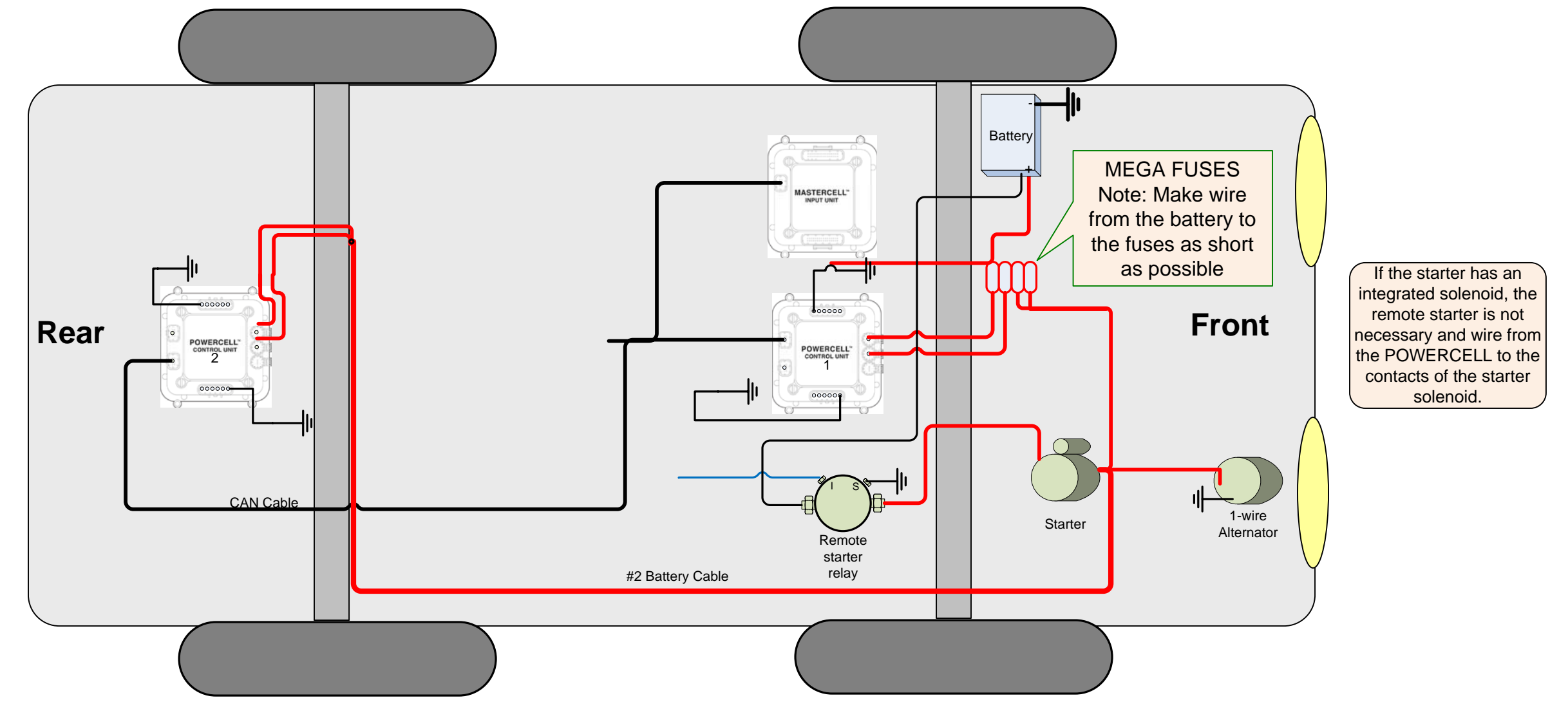


## MASTERCELL Control Circuits



## System Layout



### Mastercell Section Notice

All wires are Mastercell switch circuits and are switched to ground. Application of battery voltage will result in serious damage to the ISIS system and void your warranty.

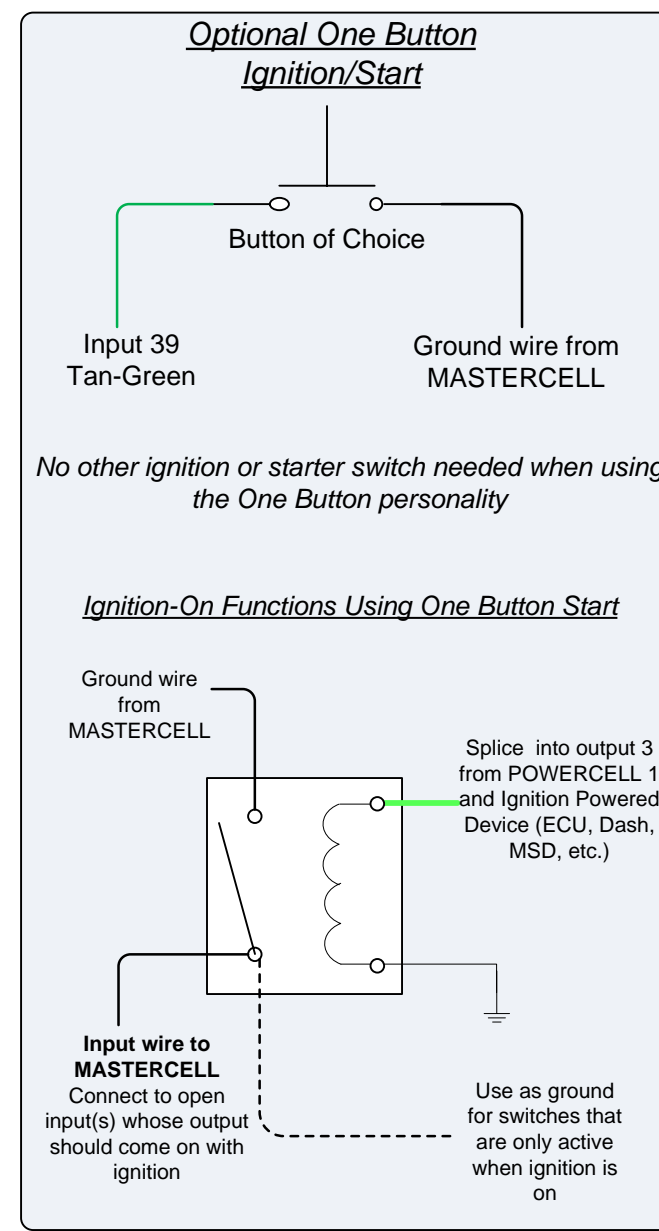
### Mastercell Schematic color key:

**DOTTED LINE** = Control Circuits that are wired to be enabled only when ignition is on

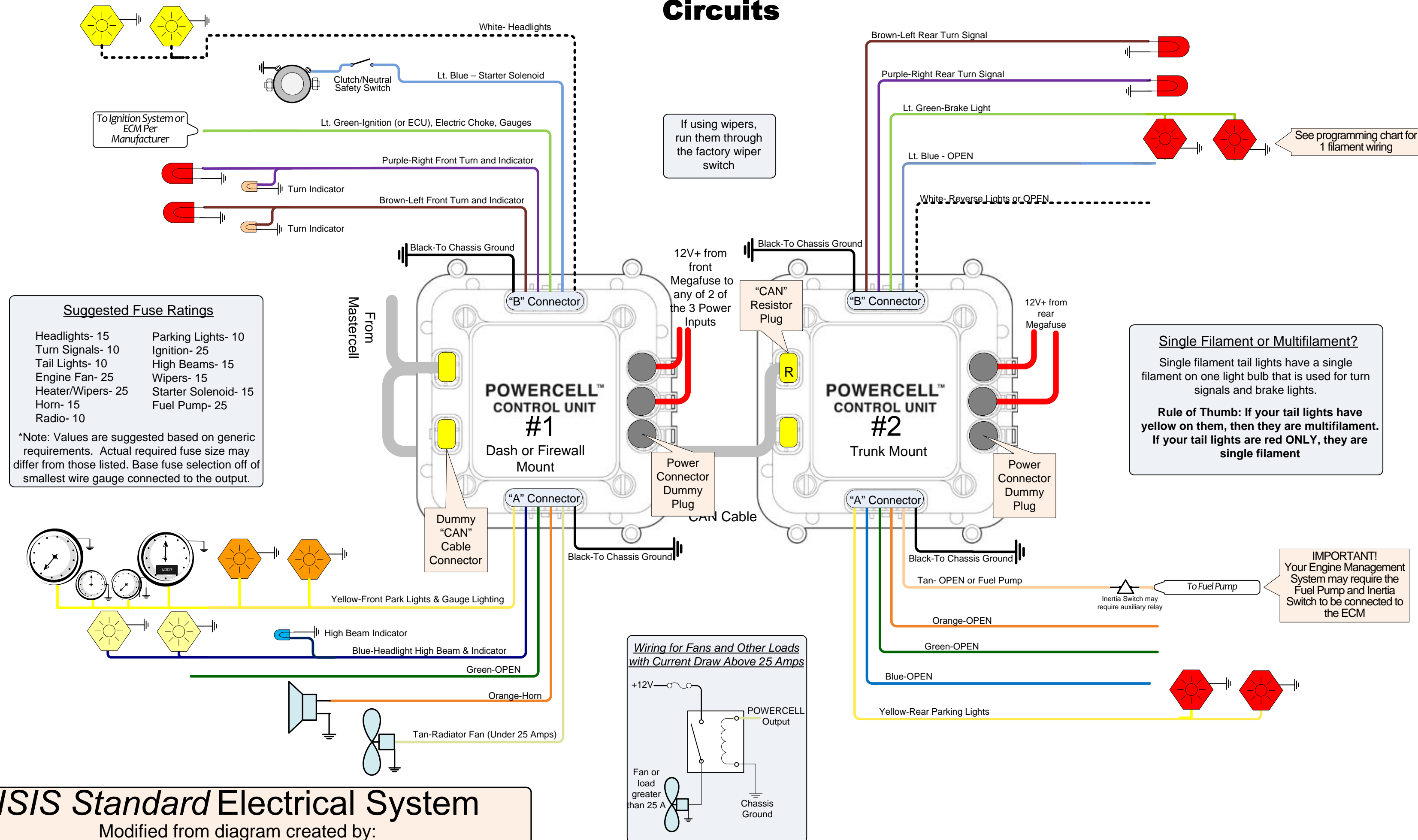
**GREEN** = Control Circuits that are always enabled

**BLACK** = Control circuit ground connections

Refer to programming for actual wire and tracer colors



## POWERCELL Power Circuits



The components are shown in relative positions, but have been spaced for clarity. The Megafuses should be placed as close to the battery as possible to minimize unprotected wire. All of the battery cable and heavy wire runs should be kept as short as possible and should be protected from chaffing or mechanical damage.

Be sure to use a ground strap or braided cable, of the same gauge or heavier than the positive cable, from the battery to the frame. It should be securely attached to a welded or threaded stud, and the ground path must not be interrupted by paint or powdercoat. A secondary ground cable (#4 Ga. Or heavier) should be run from the engine block to the frame. Finally, if your alternator has a tapped boss on the rear cover, attach a ground cable (#8 Ga. or heavier) using a short bolt and attach it to the cylinder head. Each Powercell ground (see Powercell schematic) should be securely attached to the frame as close to the Powercell as possible.

Wire size guidelines:

Battery to Starter	2 AWG
Battery to Megafuse	4 AWG (included)
Megafuse to Front Powercell	2- 8 AWG (included)
Megafuse to Rear Powercell	2- 8 AWG (included)
Alternator to Megafuse	8 AWG
Remote relay to Start Solenoid	10 AWG

## Front Engine Programming ver 10.3

Function	Switch Input	MASTERCELL Connector	MASTERCELL Wire Color	POWERCELL Address	POWERCELL Output	POWERCELL Connector	POWERCELL Wire Color	Personality
Open	1	A	WHT-BLK	2	4	B	Light-Blue	Track
Open	2	A	WHT-RED	2	5	B	White	Track
Ignition*	3	A	WHT-BLU	1	3	B	Light-Green	Track
Starter*	4	A	WHT-YEL	1	4	B	Light-Blue	Track
Headlights	5	A	WHT-GRN	1	5	B	White	Track: Soft-Start
Parking Lights	6	A	BLU-BLK	1:2	6:6	A	Yellow:Yellow	Track
High Beams	7	A	BLU-RED	1	7	A	Blue	Track: Soft-Start
Open	8	A	BLU-Lt BLU	1	8	A	Green	Track
Horn	9	A	BLU-YEL	1	9	A	Orange	Track
Fan Override or Open	10	A	BLU-GRN	1	10	A	Tan	Track
Self-Canceling Left Turn Signal	11	A	YEL-BLK	1:2	1:1	B	Brown	Self-Canceling Turn Signals
Self-Canceling Right Turn Signal	12	A	YEL-RED	1:2	2:2	B	Violet	Self-Canceling Turn Signals
4-Way Flasher with Self-Canceling Turn Signals	13	A	YEL-BLU	1:2	1&2:1&2	B	Brown:Light-Blue	4-Way Flashers
Brake Lights with Self-Canceling Turn Signals	14	A	YEL-ORG	2	3	B	Light-Green	Track: Brake Function
HID Headlights	15	A	YEL-GRN	1	5	B	White	Track
Open	16	A	TAN-BLK	2	7	A	Blue	Track
Open	17	A	TAN-RED	2	8	A	Green	Track
Open	18	A	TAN-BLU	2	9	A	Orange	Track
Fuel Pump* or Open*	19	A	TAN-YEL	2	10	A	Tan	Track
Open	20	A	TAN-GRN	3	1	B	Brown	Track
Open	21	A	GRN-BLK	3	2	B	Violet	Track
Open	22	A	GRN-BRN	3	3	B	Light-Green	Track
Open	23	A	GRN-BLU	3	4	B	Light-Blue	Track
Open	24	A	GRN-ORG	3	5	B	White	Track
Brake Lights with 1-Filament Bulbs	25	B	PNK-BLK	2	1&2	B	Brown&Violet	Track: Brake Function
Right Turn Signal for 1-Filament Bulbs	26	B	PNK-RED	1:2	2:2	B	Violet:Violet	1-Filament Turn Signals
Left Turn Signal for 1 Filament Bulbs	27	B	PNK-BLU	1:2	1:1	B	Brown:Brown	1-Filament Turn Signals
4-Way Flasher for 1-Filament Bulbs	28	B	PNK-YEL	1:2	1&2:1&2	B	Brown&Violet:Brown&Violet	Track: Pattern
Brake Lights with Multifilament Bulbs & Mechanical Column	29	B	PNK-GRN	2	3	B	Light-Green	Track
Right Turn Signal for Multifilament Bulbs & Mechanical Column	30	B	Lt BLU-BLK	1:2	2:2	B	Violet:Violet	Track Pattern: Turn Signal
Left Turn Signal for Multifilament Bulbs & Mechanical Column	31	B	Lt BLU-RED	1:2	1:1	B	Brown:Brown	Track Pattern: Turn Signal
4-Way Flasher for Multifilament Bulbs & Mechanical Column	32	B	Lt BLU-BRN	1:2	1&2:1&2	B	Brown&Violet:Brown&Violet	Track: Pattern
Open	33	B	Lt BLU-YEL	3	6	A	Yellow	Track
Open	34	B	Lt BLU-GRN	3	7	A	Blue	Track
Open	35	B	TAN-BLK	3	8	A	Green	Track
Open	36	B	TAN-RED	3	9	A	Orange	Track
Open	37	B	TAN-BLU	3	10	A	Tan	Track
Alternating Headlight Toggle	38	B	TAN-ORG	1	5:7	A:B	White:Blue	Alternating Headlight
Push Button Ignition/Start*	39	B	TAN-GRN	1	3:4	B	Light-Green:Light_Blue	NODE_EFI_START
Alternating Headlight Toggle HID	40	B	BRN-BLK	1	5:7	A:B	White:Blue	Alternating Headlight

\* Security Aware