Lotus Europa

Wiring Diagrams

S1, S1A, S1B, S2, TC, SPCL

Notice:

Whilst every effort has been made to ensure the accuracy of the information presented herein, these diagrams have been built and checked against cars that have passed through multiple owners over a period of many years and may, in some cases, be wired differently than was intended by Lotus Cars, Limited or its successor companies. Good practice would imply that the current owner verify, through personal observation, the correctness of this information and applicability to their particular automobile. In no case does anyone accept any liability for the information presented, its correctness, or applicability to YOUR car. Any mistakes should be reported so that we can continue to present the most accurate information possible.

Enjoy
!
Jerry Johnson, **www.lotus-europa.com**
Steve Veris
Bryan Boyle

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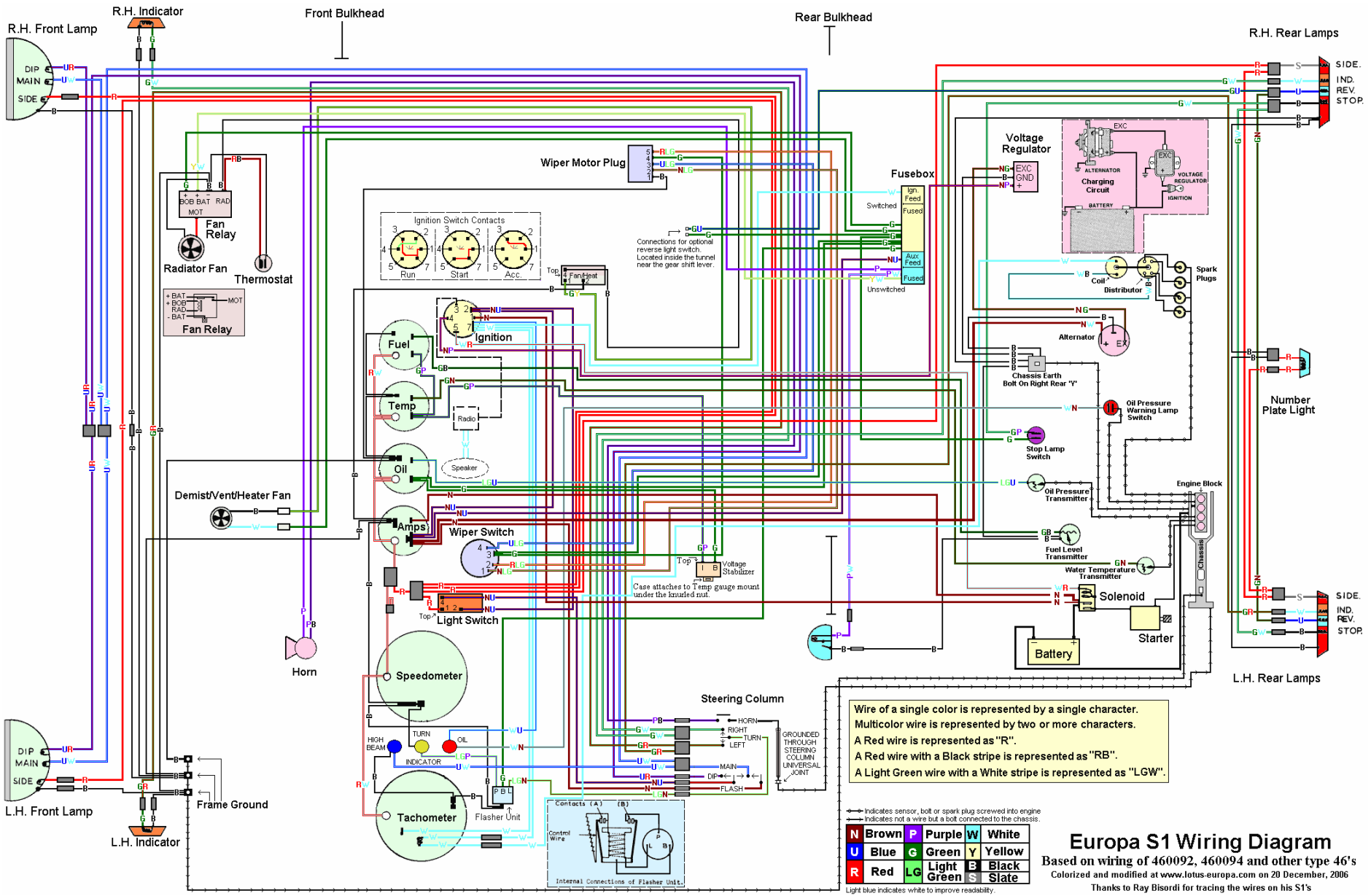
Series 1


R.H. Front Lamp
R.H. Indicator
Front Bulkhead
Rear Bulkhead
R.H. Rear Lamps
DIP
MAIN
SIDE
Wiper Motor Plug
Fusebox
Switched
Unswitched
Ign. Feed
Fused
Aux. Feed
Voltage Regulator
EXC
GND
Charging Circuit
ALTERNATOR
VOLTAGE REGULATOR
IGNITION
BATTERY
Ignition Switch Contacts
Run
Start
Acc.
Connections for optional reverse light switch. Located inside the tunnel near the gear shift lever.
Fan Relay
Radiator Fan
Thermostat
Coil
Distributor
Spark Plugs
Alternator
Chassis Earth Bolt On Right Rear "Y"
Oil Pressure Warning Lamp Switch
Stop Lamp Switch
Oil Pressure Transmitter
Engine Block
Chassis
Fuel Level Transmitter
Water Temperature Transmitter
Solenoid
Starter
Battery
Number Plate Light
SIDE.
IND.
REV.
STOP.
Fuel
Temp
Oil
Amps
Ignition
Radio
Speaker
Demist/Vent/Heater Fan
Wiper Switch
Light Switch
Voltage Stabilizer
Case attaches to Temp gauge mount under the knurled nut.
Horn
Speedometer
Tachometer
Flasher Unit
Steering Column
HORN
RIGHT TURN
LEFT
MAIN
DIP
FLASH
GROUNDED THROUGH STEERING COLUMN UNIVERSAL JOINT
HIGH BEAM
TURN
OIL
INDICATOR
Contacts (A) (B)
Control Wire
Internal Connections of Flasher Unit.
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L.H. Indicator
Frame Ground
L.H. Rear Lamps
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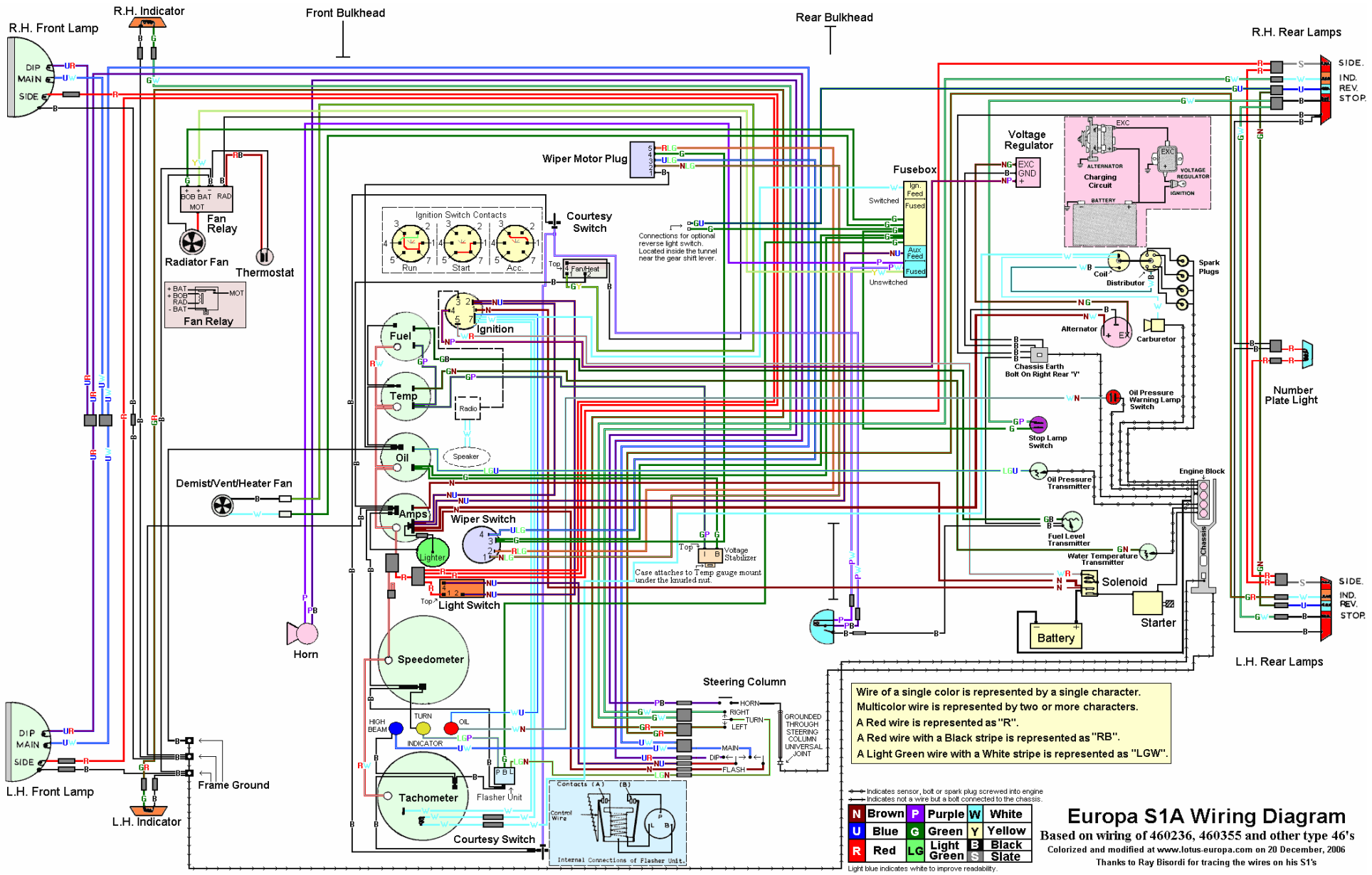
Multicolor wire is represented by two or more characters.
A Red wire is represented as "R".
A Red wire with a Black stripe is represented as "RB".
A Light Green wire with a White stripe is represented as "LGW".
Indicates sensor, bolt or spark plug screwed into engine
Indicates not a wire but a bolt connected to the chassis.
N Brown
P Purple
W White
U Blue
G Green
Y Yellow
R Red
LG Light Green
B Black
S Slate
Light blue indicates white to improve readability.
Europa S1 Wiring Diagram
Based on wiring of 460092, 460094 and other type 46's
Colorized and modified at www.lotus-europa.com on 20 December, 2006
Thanks to Ray Bisordi for tracing the wires on his S1's

Series 1A


R.H. Front Lamp
R.H. Indicator
Front Bulkhead
Rear Bulkhead
R.H. Rear Lamps
DIP
MAIN
SIDE
Fan Relay
Radiator Fan
Thermostat
Wiper Motor Plug
Ignition Switch Contacts
Run
Start
Acc.
Courtesy Switch
Connections for optional reverse light switch. Located inside the tunnel near the gear shift lever.
Fusebox
Switched
Unswitched
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Alternator
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REV.
STOP.
Fuel
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Oil
Amps
Ignition
Radio
Speaker
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Wiper Switch
Lighter
Light Switch
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Speedometer
Tachometer
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HIGH BEAM
TURN INDICATOR
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L.H. Indicator
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G Green
LG Light Green
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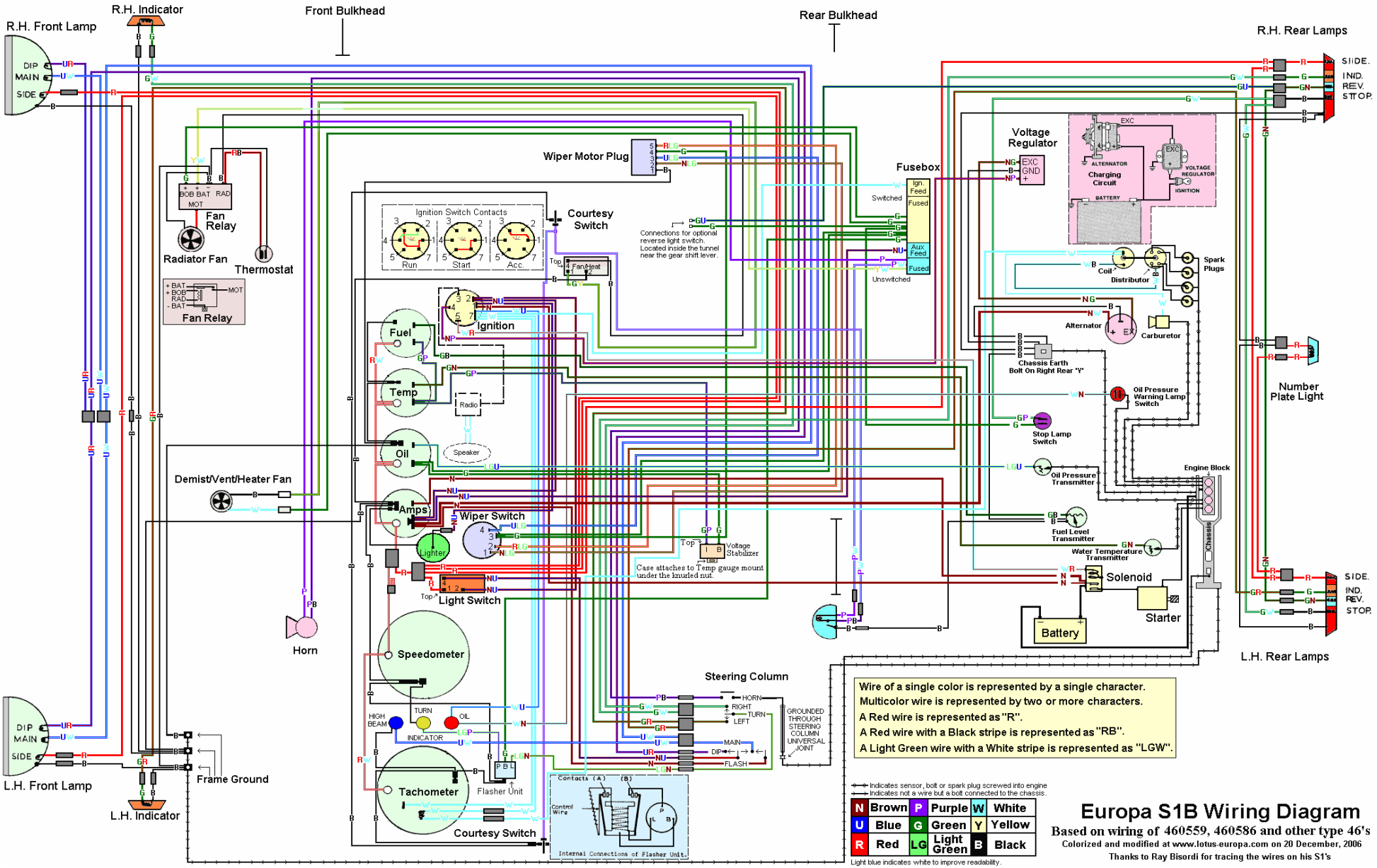
Y Yellow
B Black
S Slate
Light blue indicates white to improve readability.
Europa S1A Wiring Diagram
Based on wiring of 460236, 460355 and other type 46's
Colorized and modified at www.lotus-europa.com on 20 December, 2006
Thanks to Ray Bisordi for tracing the wires on his S1's

Series 1B


R.H. Front Lamp
R.H. Indicator
Front Bulkhead
Rear Bulkhead
R.H. Rear Lamps
DIP
MAIN
SIDE
Wiper Motor Plug
Fusebox
Voltage Regulator
Fan Relay
Radiator Fan
Thermostat
Ignition Switch Contacts
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Start
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Courtesy Switch
Connections for optional reverse light switch. Located inside the tunnel near the gear shift lever.
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Unswitched
Ign. Feed
Fused
Aux Feed
Charging Circuit
Alternator
Coil
Distributor
Spark Plugs
Carburetor
Chassis Earth Bolt On Right Rear "Y"
Oil Pressure Warning Lamp Switch
Stop Lamp Switch
Oil Pressure Transmitter
Fuel Level Transmitter
Water Temperature Transmitter
Solenoid
Starter
Battery
Engine Block
Chassis
Number Plate Light
SIDE.
IND.
REV.
STOP.
L.H. Rear Lamps
Fuel
Temp
Oil
Amps
Ignition
Radio
Speaker
Demist/Vent/Heater Fan
Wiper Switch
Lighter
Light Switch
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Speedometer
Tachometer
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RIGHT TURN
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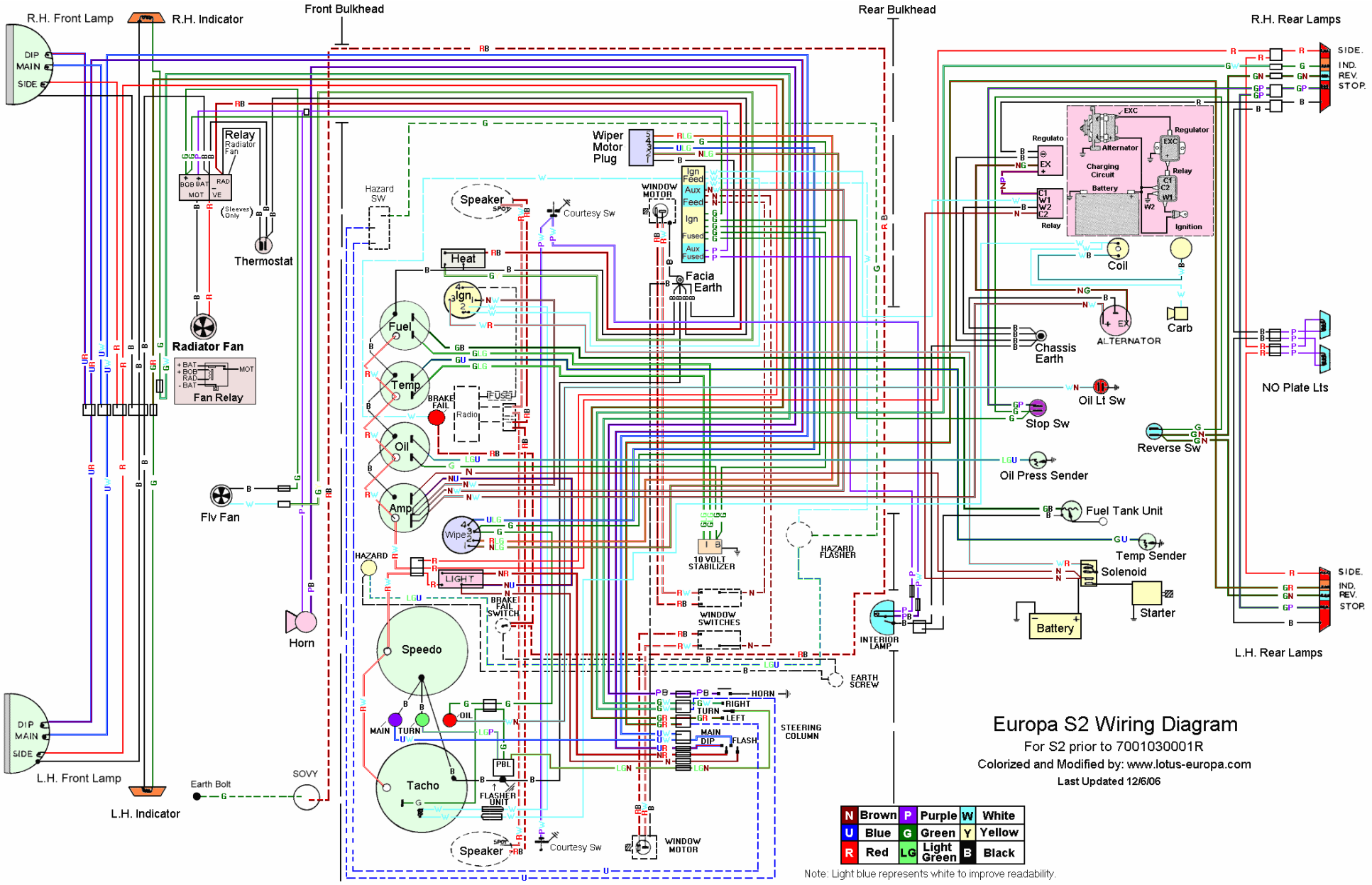
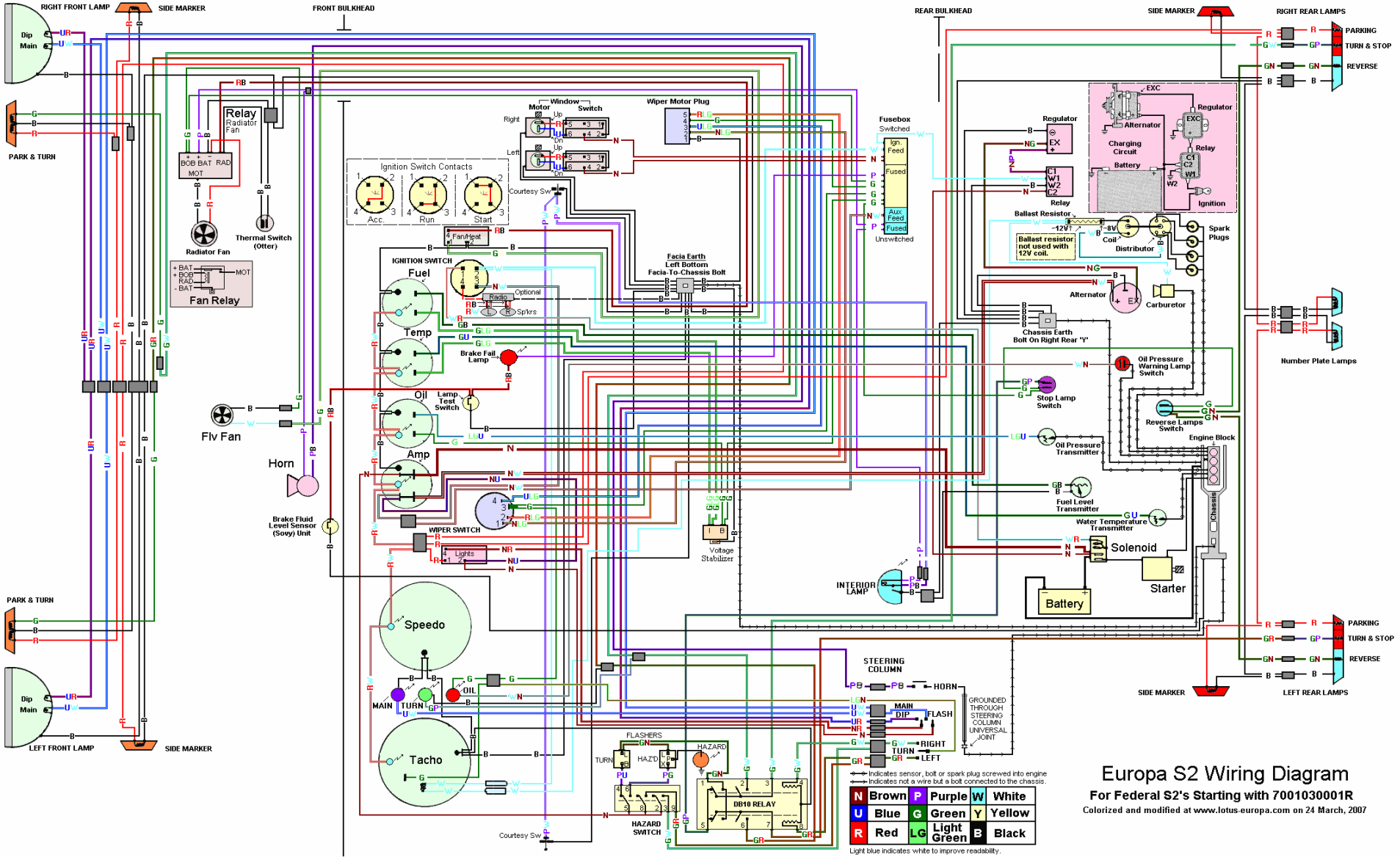
N Brown
U Blue
R Red
P Purple
G Green
LG Light Green
W White
Y Yellow
B Black
Light blue indicates white to improve readability.
Europa S1B Wiring Diagram
Based on wiring of 460559, 460586 and other type 46's
Colorized and modified at www.lotus-europa.com on 20 December, 2006
Thanks to Ray Bisordi for tracing the wires on his S1's

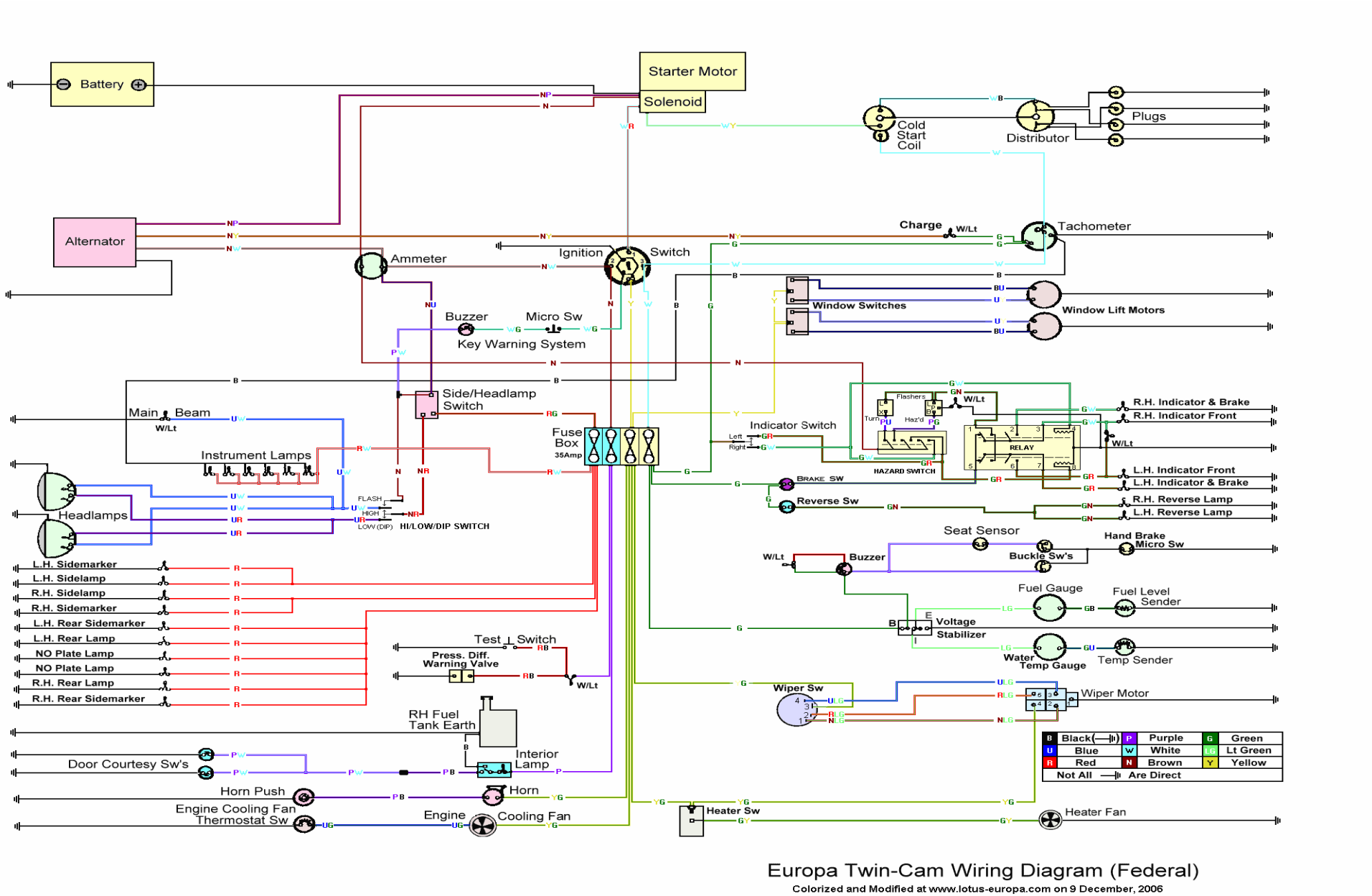
Series 2


R.H. Front Lamp
R.H. Indicator
Front Bulkhead
Rear Bulkhead
R.H. Rear Lamps
DIP
MAIN
SIDE
Relay
Radiator Fan
Thermostat
Radiator Fan
Fan Relay
Flv Fan
Horn
Hazard SW
Speaker
Courtesy Sw
Wiper Motor Plug
WINDOW MOTOR
Heat
Ign
Fuel
Temp
Oil
Amp
Wipe
BRAKE FAIL
FUSE
Radio
Facia Earth
HAZARD
LIGHT
BRAKE FAIL SWITCH
10 VOLT STABILIZER
WINDOW SWITCHES
HAZARD FLASHER
INTERIOR LAMP
EARTH SCREW
STEERING COLUMN
HORN
RIGHT
LEFT
FLASH
Speedo
Tacho
FLASHER UNIT
PBL
Earth Bolt
SOVY
L.H. Front Lamp
L.H. Indicator
Regulator
Alternator
Charging Circuit
Battery
Ignition
Coil
Carb
ALTERNATOR
Chassis Earth
Oil Lt Sw
Stop Sw
Reverse Sw
Oil Press Sender
Fuel Tank Unit
Temp Sender
Solenoid
Starter
Battery
SIDE.
IND.
REV.
STOP.
NO Plate Lts
L.H. Rear Lamps
Europa S2 Wiring Diagram
For S2 prior to 7001030001R
Colorized and Modified by: www.lotus-europa.com
Last Updated 12/6/06
N Brown
P Purple
W White
U Blue
G Green
Y Yellow
R Red
LG Light Green
B Black
Note: Light blue represents white to improve readability.

Series 2 Federal



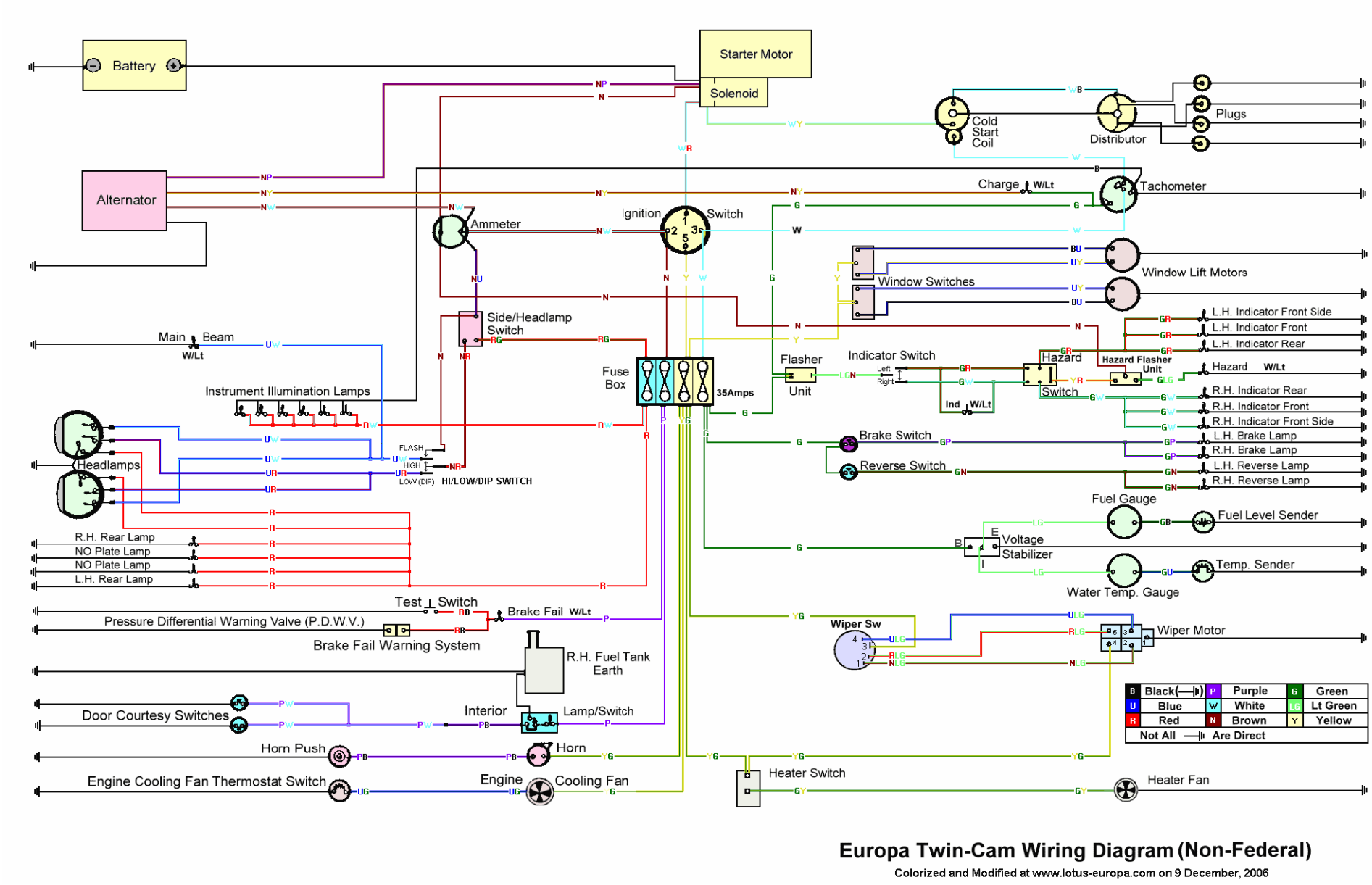
Twin Cam (Federal)



Europa Twin-Cam Wiring Diagram (Federal)

Colorized and Modified at www.lotus-europa.com on 9 December, 2006

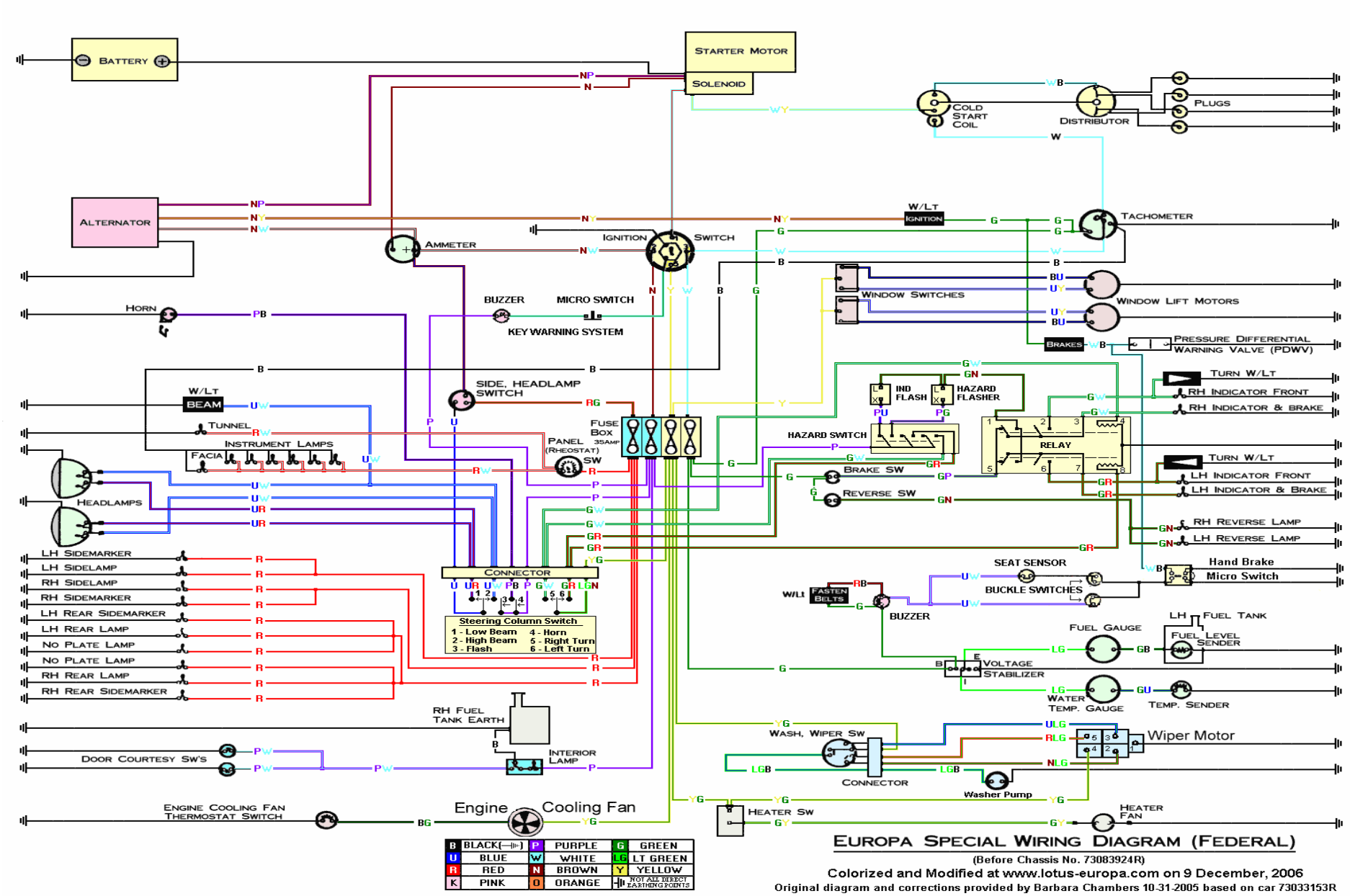
Twin Cam (ROW)



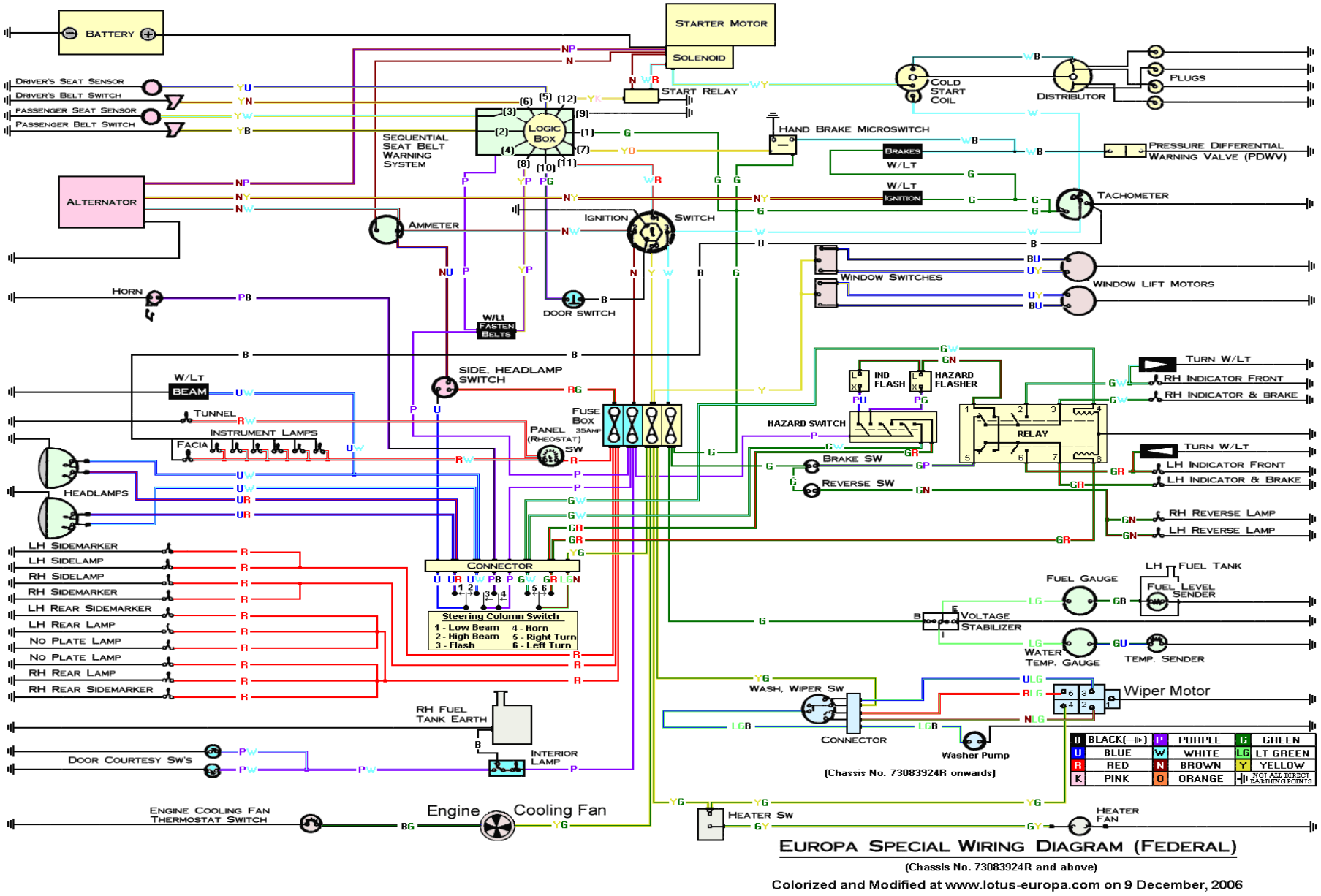
Europa Twin-Cam Wiring Diagram (Non-Federal)

Colorized and Modified at www.lotus-europa.com on 9 December, 2006

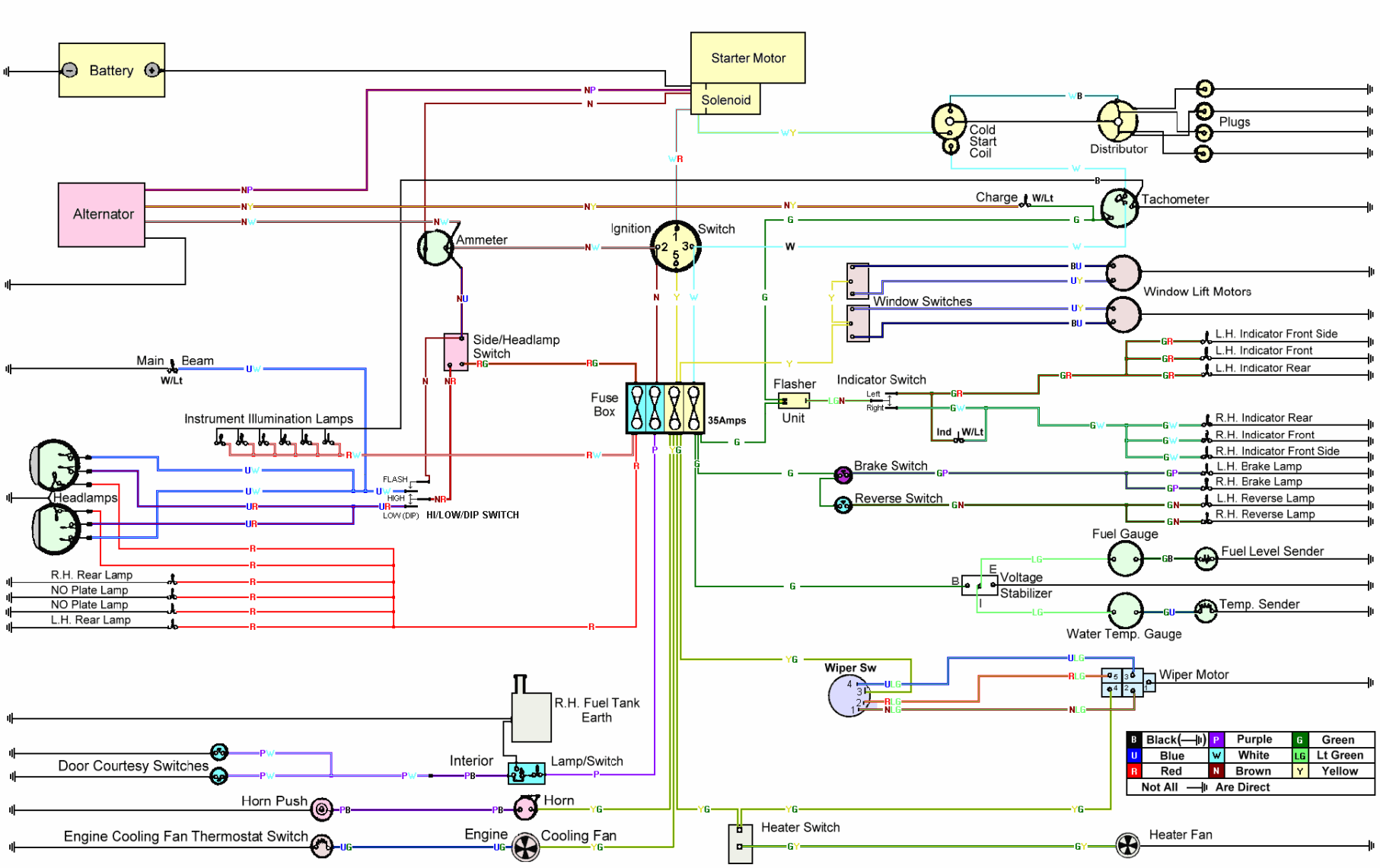
Twin Cam Special (Federal before unit #73083924R)



Twin Cam Special (Federal starting with unit 73083924R)



Twin Cam (UK & ROW)



Europa Twin-Cam Wiring Diagram (U.K.)

Colorized and Modified at www.lotus-europa.com on 9 December, 2006

Standardized British Wiring Color Code

There is a British Standard for vehicle wiring (BS-AU7a) which defines the colors and allows you to trace where the wires should go from basic principles rather than necessarily needing a diagram. It also allows accessories to be added with the correct colored wires, which theoretically assists later diagnosis enormously.

None of this helps the fact that the things on the ends of the wires are usually made by Lucas also and are therefore of ahhhh…variable quality. I'm particularly fond of a description of a normal Lucas headlamp switch as having three positions: DIM, FLICKER and OFF.

Anyway, that's enough potentially libelous comments (I'm sure all current Lucas products are fine nowadays and the repro stuff is crap only because it is so authentic).

This info should not only allow you to trace original wires but also to use the correct colors when adding additional equipment such as spotlights, ejector seats, or whatever.

BROWN: direct, unswitched, unfused supply from the battery. Seen on wires to alternators, dynamos, control boxes and ignition switches etc. Always live and often carrying heavy current.

YELLOW sometimes used as an alternative to brown on older cars. Also used on solenoids and overdrive switches.

PURPLE: Direct, unswitched but fused supply from the battery. On older cars with no purple wires, brown wires with a secondary tracer colour are used.

WHITE: Unfused supply from the ignition switch.

GREEN: Fused supply switched via the ignition switch. Used for things like the wiper motor, indicators and brake lights which only work when the ignition is on.

BLUE: The main color for front lights- headlamps and spotlamps.

RED: The main color for rear and side lights.

BLACK: Usual color for wires from components to earth points on the body.

These refer to the main color of the wire. The second tracer color which is on many wires is the thinner line and is used to identify the SPECIFIC function of the specific wire. There is a certain amount of British logic, you will see.

BLACK WIRES

Black	All earth connections
Black/Brown	Tachometer generator to tachometer
Black/Blue	Tachometer generator to tachometer
Black/Red	Electric or electronic speedometer to sensor
Black/Purple	Temperature switch to warning light
Black/Green	Relay to radiator fan motor
Black/Light Green	Vacuum brake switch or brake differential pressure valve to warning light and/or buzzer
Black/White	Brake fluid level warning light to switch and handbrake switch, or radio to speakers
Black/Yellow	Electric speedometer
Black/Orange	Radiator fan motor to thermal switch

BLUE WIRES

Blue	Lighting switch (head) to dip switch
Blue/Brown	Headlamp relay to headlamp fuse
Blue/Red	Dip switch to headlamp dip beam fuse. Fuse to right-hand dip headlamp
Blue/Light green	Headlamp wiper motor to headlamp wash pump motor
Blue/White	a) Dip switch to headlamp main beam fuse b) Headlamp flasher to main beam fuse c) Dip switch main beam warning light d) Dip switch to long-range driving light switch
Blue/Yellow	Long-range driving light switch to lamp
Blue/Black	Fuse to right-hand main headlamp
Blue/Pink	Fuse to left-hand dip headlamp
Blue/Slate	Headlamp main beam fuse to left-hand headlamp or inboard headlamps when independently fused
Blue/Orange	Fuse to right-hand dip headlamp

BROWN WIRES

Brown	Main battery lead
Brown/ Blue	Control box (compensated voltage control only) to ignition switch and lighting switch (feed)
Brown/Red	Compression ignition starting aid to switch. Main battery feed to double pole ignition switch
Brown/Purple	Alternator regulator feed
Brown/Green	Dynamo 'F' to control box 'F' Alternator field 'F' to control box 'F'
Brown/White	Ammeter to control box. Ammeter to main alternator terminal
Brown/Yellow	Alternator to 'no charge' warning light
Brown/Black	Alternator battery sensing lead
Brown/Slate	Starter relay contact to starter solenoid
Brown/Orange	Fuel shut-off (diesel stop)

GREEN WIRES

Green	Accessories fused via ignition switch
Green/Brown	Switch to reverse lamp
Green/Blue	Water temperature gauge to temperature unit
Green/Red	Direction indicator switch to left-hand flasher lamps
Green/Purple	Stop lamp switch to stop lamps, or stop lamp switch to lamp failure unit
Green/Light green	Hazard flasher unit to hazard pilot lamp or lamp failure unit to stop lamp bulbs
Green/White	Direction indicator switch to right hand flasher lamps
Green/Yellow	Heater motor to switch single speed (or to 'slow' on two- or three-speed motor)
Green/Black	Fuel gauge to fuel tank unit or changeover switch or voltage stabilizer to tank units
Green/Pink	Fuse to flasher unit
Green/Slate	a) Heater motor to switch ('fast' on two- or three-speed motor) b) Coolant level unit to warning light
Green/Orange	Low fuel level switch to warning light

LIGHT GREEN

Light green	Instrument voltage stabilizer to instruments
Light green/Brown	Flasher switch to flasher unit
Light green/Blue	a) Flasher switch to left-hand flasher warning light b) Coolant level sensor to control unit c) Test switch to coolant level control unit
Light green/Red	Fuel tank changeover switch to right-hand tank unit or entry and exit door closed switch to door actuator
Light green/Purple	Flasher unit to flasher warning light
Light green/Green	Start inhibitor relay to change speed switch; or switch to heater blower motor second speed on three-speed unit
Light green/White	Low air pressure switch to buzzer and warning light Flasher switch to right-hand warning light; or
Light green/Yellow	differential lock switch to differential lock warning light
Light green/Black	Front screen jet switch to screen jet motor
Light green/Slate	Fuel tank changeover switch to left-hand tank unit; or entry and exit door open switch to door actuator
Light green/Orange	Rear window wash switch to wash pump; or cab lock-down switch to warning light

ORANGE WIRES

Orange	Wiper circuits fused via ignition switch
Orange/Blue	Switch to front screen wiper motor first speed timer or intermittent unit
Orange/Green	Switch to front screen wiper motor second speed
Orange/Black	Switch to front screen wiper motor parking circuit, timer or intermittent unit
Orange/Purple	Timer or intermittent unit to motor parking circuit
Orange/White	Timer or intermittent unit to motor parking circuit
Orange/Yellow	Switch to headlamp or rear window wiper motor feed, timer or relay coil
Orange/Light green	Switch to headlamp or rear window wiper motor parking circuit timer or relay coil

Orange/Pink	Timer or relay to headlamp or rear window wiper motor feed
Orange/Slate	Timer or relay to headlamp or rear window wiper motor parking circuit

PURPLE WIRES

Purple	Accessories fed direct from battery via fuse
Purple/Brown	Horn fuse to horn relay when horn is fused separately
Purple/Blue	Fuse to heated rear window relay or switch and warning light
Purple/Red	Switches to map light, under bonnet light, glove box light and boot lamp when fed direct from battery fuse
Purple/Green	Fuse to hazard flasher
Purple/Light green	Fuse to relay for screen demist
Purple/White	Interior lights to switch (subsidiary circuit door safety lights to switch)
Purple/Yellow	Horn to horn relay
Purple/Black	Horn to horn relay to horn push
Purple/Pink	Rear heated window to switch or relay
Purple/Slate	Aerial lift motor to switch down

RED WIRES

Red	Main feed to all circuits mastered by sidelamp switch
Red/Brown	Rear fog guard switch to lamps
Red/Blue	Front fog lamp fuse to fog lamp switch
Red/Purple	Switches to map light, under bonnet light, glove box light and boot lamp when sidelamp circuit fed
Red/Green	Bulb failure unit to right-hand-side and rear lamps
Red/White	a) Sidelamp fuse to right-hand side and rear lamps b) Sidelamp fuse to panel light rheostat c) Fuse to panel light switch or rheostat d) Fuse to fibre optic source
Red/Yellow	Fog lamp switch to fog lamp or front fog fuse to fog lamps
Red/Black	Left-hand, sidelamp fuse to side and tail lamps and number plate illumination
Red/Pink	Sidelamp fuse to lighting relay
Red/Slate	Lamp failure unit to left-hand side and tail lamps
Red/Orange	Fusebox to rear fog guard switch
Red/Slate	Window lift main lead

WHITE WIRES

White	Ignition switch or starter solenoid to ballast resistor
White/Brown	Oil pressure switch to warning light or gauge, or starter relay to oil pressure switch.
White/Blue	Switch to warning light, or electronic ignition distributor to drive resistor. Starter switch to starter solenoid or inhibitor switch
White/Red	For starter relay or ignition (start position) to bulb failure unit
White/Purple	Fuel pump no 1 or right-hand to changeover switch
White/Green	Fuel pump no 2 or left-hand to changeover switch. Start switch to starter interlock or oil pressure switch
White/Light green	To fuel pump or start inhibitor switch to starter relay or solenoid

White/Yellow	Ballast resistor to coil or starter solenoid to coil. Ignition coil contact breaker to distributor contact
White/Black	Breaker, or distributor side of coil to voltage impulse tachometer
White/Pink	Ignition switch to radio fuse
White/Slate	Current tachometer to ignition coil
White/Orange	Hazard warning lead to switch
White/Yellow	a) Overdrive b) Petrol injection c) Door locks d) Gear selector switch to start

PINK WIRE

Pink/white	Ballast terminal to ignition distributor