Deciphering Wiring Colors

by Terence McKillen

any British made vehicles, including most post-WWI sports cars, have been wired to the British Standards Institute BS-AU7 wiring color standard, which was based on an earlier Lucas wiring loom standard. Other wiring color standards have been, and still are being, used by different car makers.

In recent years far more devices have been added to car specifications and many are now addressed by a central control unit using a "multiplexing system" which reduces the number of wires required. This has lead to new and radically different wiring standards.

When undertaking electrical repairs, you should obtain the correct wiring diagram for your particular make and model and use it to ensure that the correct wire colors (and correct gauge or thickness of wire) are being used to connect your instruments and accessories. If you make wiring changes and end up using different colored wires from the original, you should note those changes on the wiring diagram so as to provide that information to a subsequent owner(s).

If your vehicle was wired to the BS-AU7 standard, however, the following guide should be of help.

Basic wire colors

Seven basic wire colors were used in the majority of the Triumph (Lucas) wiring looms. These include black (ground or earth connections); brown (main battery feed, always HOT & unfused); white (base color for ignition circuits, HOT with ignition ON & unfused); purple (auxiliary devices not fed via the ignition switch, e.g. horn, interior light, always HOT & fused); green (feeds to auxiliary devices controlled by the ignition switch, e.g. wipers, flashers, etc., HOT with ignition ON & fused); red (sidelights, instrument lights, rear lights, fused or unfused); blue (with white trace main beam headlamp, with red trace - dipped beam headlamp; plain blue is used from the main lighting switch to the dip-switch headlamps, unfused). These were supplemented by a further group of solid colors.

In addition to wires that only use the basic colors, there are many that use one of these same basic colors in combination with a different colored stripe.

Handbooks were often printed in black



N Brown P Purple W White G Green R Red U Blue B Black

and white, so the cable colors are identified by a lettering code. When a wire has a base color and a second trace color the code is two letters, for example: WG = White with green tracer, RLG = Red with a Light Green tracer.

Other colors

Other colors are used, according to equipment specifications. For example, **light** green (various applications); **slate** (HOT with

ignition OFF, fused or unfused); and yel-
low (overdrive circuit - HOT in 3rd/4th, ig-
nition ON, unfused).



The table of wire colors and applications displayed below was passed on to me late last summer by Michael Coffey and explains the wiring colors used on the main components of our LBCs. **SN**

BLACK (B) Always EARTH (ground), unfused		
Black (B): Black/green (BG):	Various locations URP switch to cooling fans	
Black /white (BW):	Brake warning light	
BROWN (N) Always HOT, unfused		
Brown (N):	Various locations	
Brown/light green (NLG)	Windscreen motor to switch	
Brown, yellow (NY)	Indicator light to alternator	
Brown/purple (NP)	Unused	
WHITE (W) HOT with	n ignition ON, unfused	
White (W):	Key to ignition relay, cut-off switch, fuel pump, ignition ballast resistor, fusebox, various locations	
White/black (WB):	Distributor to coil, coil to tachometer	
White/blue (WU):	Stepped down voltage for	
	distributor amplifier	
White/brown (WN):	Ignition switch relay to fusebox, starter	
	sending unit to gauge (1968-'69 only)	
White/green (WG)	Keyswitch to radio. HOT unfused at first	
winte/green (wo).	key position; wipers and heater (earlier)	
White/light green (WLG)	Solenoid to coil, ignition ballast	
resistor to coil		
White/red (WR):	Keyswitch to starter relay, starter relay	
	to brake warning diode.	
PURPLE (P) Always	HOT, fused	
Purple (P):	Fusebox to horn, various locations	
Purple/black (PB):	Horn to horn switch	
Purple/green (PG):	Key buzzer to time delay buzzer	
Purple/pink (PK):	Key switch to key buzzer	
Purple/white (PW):	Courtesy lamp/boot lamp to	
	earthing switches	
GREEN (G) HOT with ignition ON, fused		
Green (G):	From fusebox to various locations	
Green/black (GB):	Fuel tank unit to gauge	
Freen/blue (GU):	Temp. sending unit to gauge	
Green/brown (GN):	Reverse lamp switch to reverse lights;	
	heater fan to switch	

Green/yellow (GY):	Heater to fan switch
RED (R) Parking light	hts, fused or unfused
Red (R):	Fusebox to sidemarkers, parking lights Switch to lights (1963-'69)
Red/green (RG): Red/light green (RLG): Red/white (RW):	Light switch to fusebox, panel rheostat Wiper motor to switch Panel rheostat panel lights
BLUE (U) Headlamps	s, unfused
Blue (U): Blue/light green (ULG): Blue/red (UR): Blue/white (UW):	Light switch to dimmer switch Wiper motor to switch Dimmer switch to low beam Dimmer switch to high beam, high beam indicator
LIGHT GREEN (L	G) Various applications
Light Green/black (LGB Light Green/brown (LGP Light Green/green (LGG Light Green/purple (LGP): Washer pump to switch V): Flasher to turn signal switch, flasher to hazard switch): Voltage stabilizer to fuel/temp. gauges P): Hazard switch to hazard warning lamp
SLATE (S) HOT wi	th ignition OFF, fused and unfused
Slate (S): Slate/purple (SP): Slate/yellow (SY):	Key to in-line fuse Fuse to anti-run on valve Anti-run on valve to oil pressure switch
YELLOW (Y) HOT	in 3rd/4th, ignition ON, unfused
Yellow (Y):	Overdrive switch to relay (1963-'67) overdrive switch to 3/4 switch (1968-'76)
Yellow/brown (YB): Yellow/purple (YP):	Driver's seat belt to time delay buzzer Time delay buzzer to seat belt warning light; overdrive circuit
Yellow/red (YR):	Overdrive circuit