

# ***ski-doo***

WIRING DIAGRAMS ONLY

**1997**  
VOLUME 2

**SHOP MANUAL**



**MX Z 440F/440/583/670  
FORMULA 500/500 DELUXE/583/Z  
SUMMIT 500/583/670  
GRAND TOURING 500/583  
SKANDIC WT/SWT/WT LC**

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# 1997 MXZ 440 F

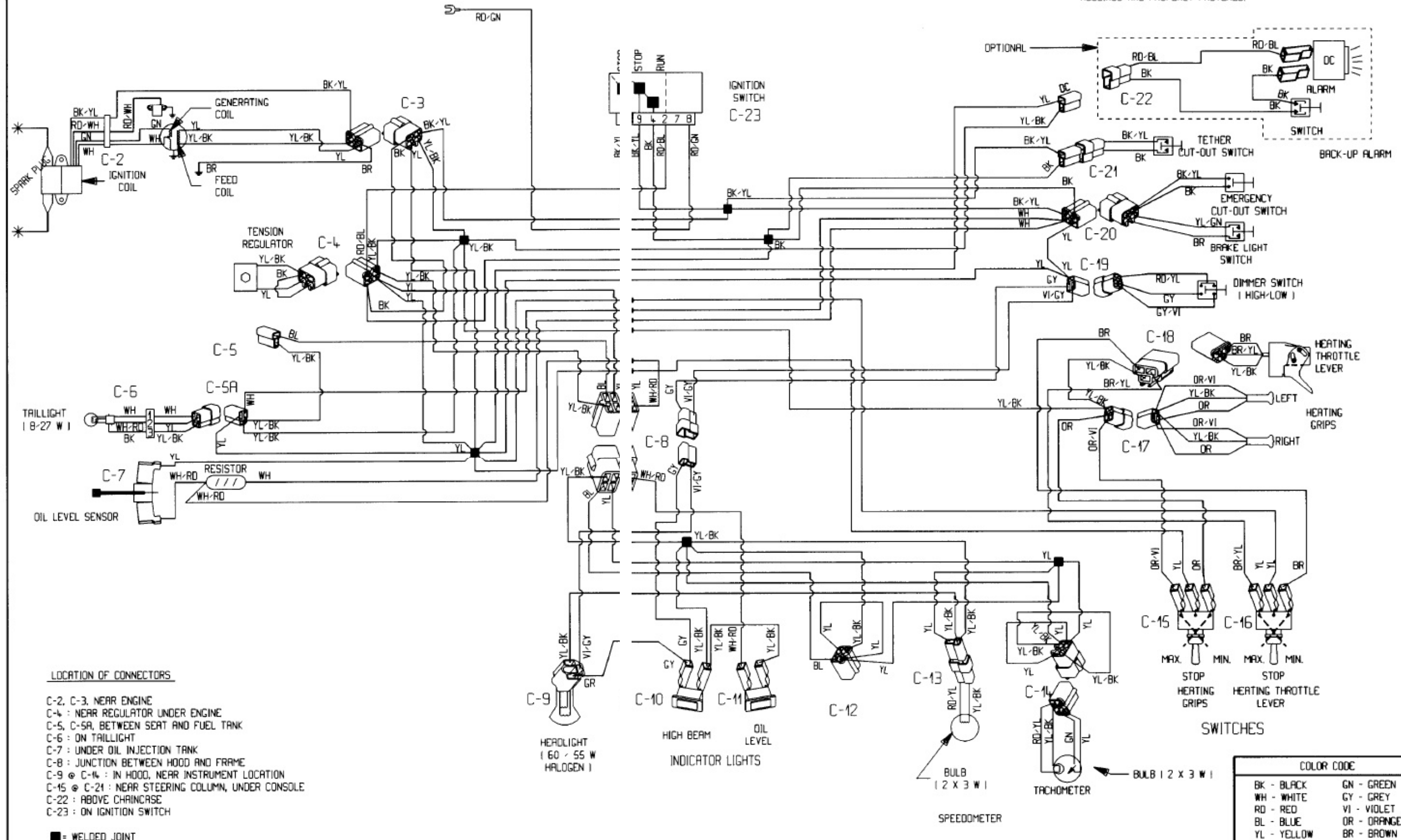
Following table shows wire colors related to electrical circuits.

WIRE COLORS	ELECTRICAL CIRCUIT	ADDITIONAL INFORMATION
BLACK/YELLOW	ENGINE SHUT OFF – Key switch – Tether cord switch – Emergency switch	Must be grounded to stop engine.
BLACK (small)	Ground for shut off	
BLACK (Big)	Ground for starter (–)	
YELLOW YELLOW/BLACK	12 volts (A.C.)	If shorted, magneto stops producing electricity.
RED	12 volts (D.C.) (+) For starter motor	
RED/GREEN	12 volts (D.C.) (+) For starter solenoid	
RED/BLUE	12 volts (D.C.) (+) Rectifier output	
GREY	12 volts (A.C.) High beam	Current returns by YELLOW/BLACK wire connected to headlamp.
VIOLET/GREY	12 volts (A.C.) Low beam	
WHITE	12 volts (A.C.) Brake light	Current returns by YELLOW/BLACK wire connected to taillight.
WHITE/RED	12 volts (A.C.) Low oil level	Current returns by YELLOW/BLACK wire connected to oil level sensor.
BLUE	12 volts (A.C.) Fuel level indicator	Current returns by YELLOW wire connected to fuel level sensor.
ORANGE	12 volts (A.C.) Heated grips (max.)	Current returns by YELLOW/BLACK wire connected to heating elements.
ORANGE/VIOLET	12 volts (A.C.) Heated grips (min.)	
BROWN	12 volts (A.C.) Heated throttle lever (max.)	
BROWN/YELLOW	12 volts (A.C.) Heated throttle lever (min.)	
GREEN	12 volts (A.C.) Temperature gauge	Current returns by YELLOW wire connected to sensor.
VIOLET	12 volts (A.C.) Engine overheating light.	

MXZ 440 F '97

# WARNING:

ENSURE ALL TERMINALS ARE PROPERLY CRIMPED ON THE WIRES AND ALL CONNECTOR HOUSINGS ARE PROPERLY FASTENED.



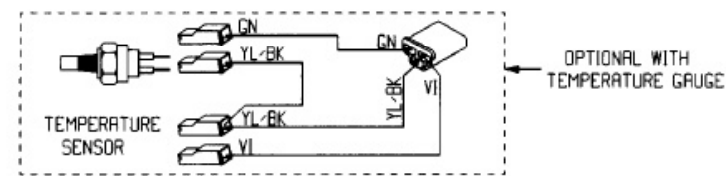
# 1997 MXZ 440 / 583 / 670

Following table shows wire colors related to electrical circuits.

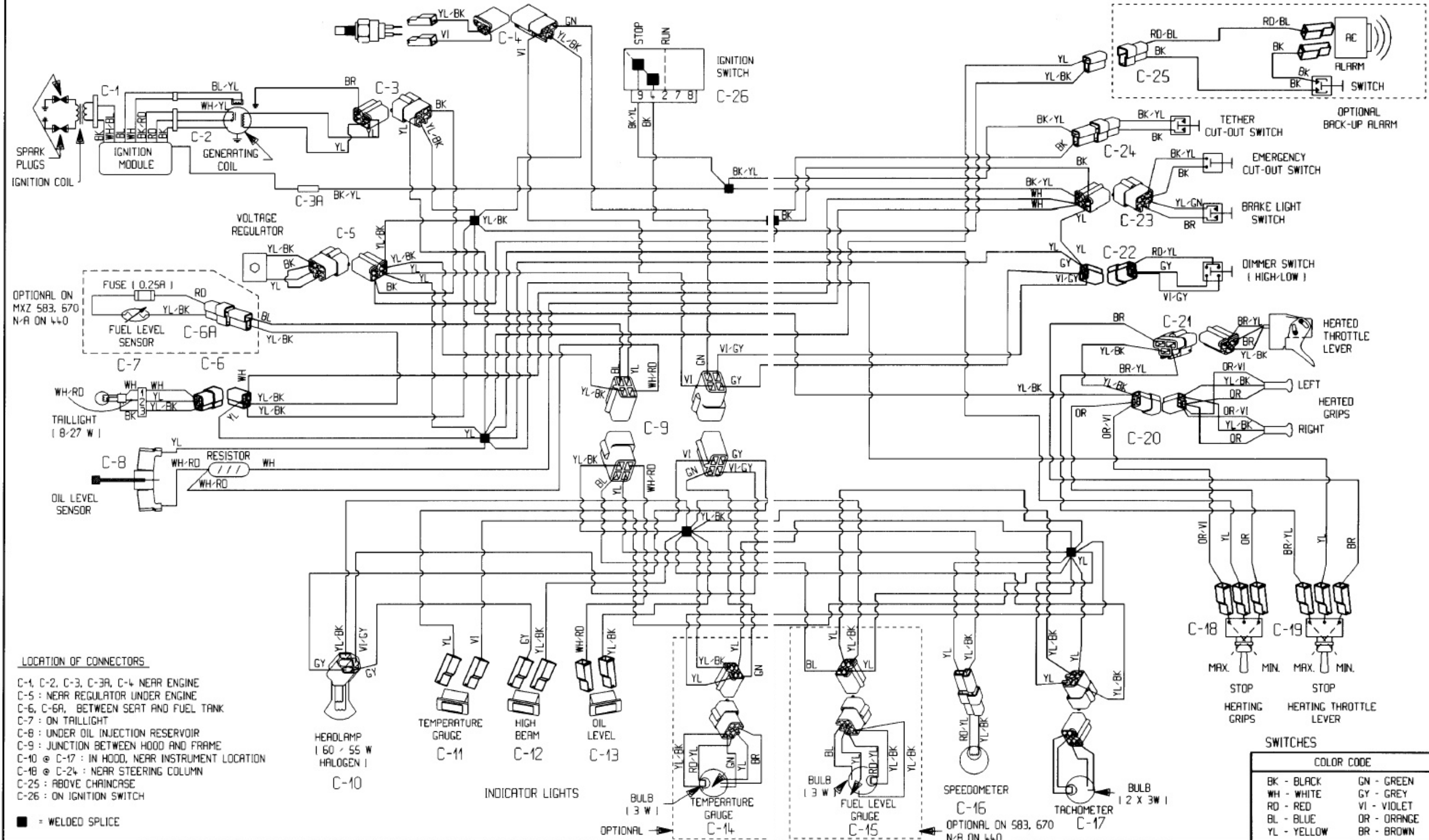
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RED/BLUE	12 volts (D.C.) (+) Rectifier output	
GREY	12 volts (A.C.) High beam	Current returns by YELLOW/BLACK wire connected to headlamp.
VIOLET/GREY	12 volts (A.C.) Low beam	
WHITE	12 volts (A.C.) Brake light	Current returns by YELLOW/BLACK wire connected to taillight.
WHITE/RED	12 volts (A.C.) Low oil level	Current returns by YELLOW/BLACK wire connected to oil level sensor.
BLUE	12 volts (A.C.) Fuel level indicator	Current returns by YELLOW wire connected to fuel level sensor.
ORANGE	12 volts (A.C.) Heated grips (max.)	Current returns by YELLOW/BLACK wire connected to heating elements.
ORANGE/VIOLET	12 volts (A.C.) Heated grips (min.)	
BROWN	12 volts (A.C.) Heated throttle lever (max.)	
BROWN/YELLOW	12 volts (A.C.) Heated throttle lever (min.)	
GREEN	12 volts (A.C.) Temperature gauge	Current returns by YELLOW wire connected to sensor.
VIOLET	12 volts (A.C.) Engine overheating light.	



MX-Z 440 '97  
MX-Z 583  
MX-Z 670



**WARNING** ENSURE ALL TERMINALS ARE PROPERLY CRIMPED ON THE WIRES AND ALL CONNECTOR HOUSINGS ARE PROPERLY FASTENED



# 1997 FORMULA 500 DELUXE

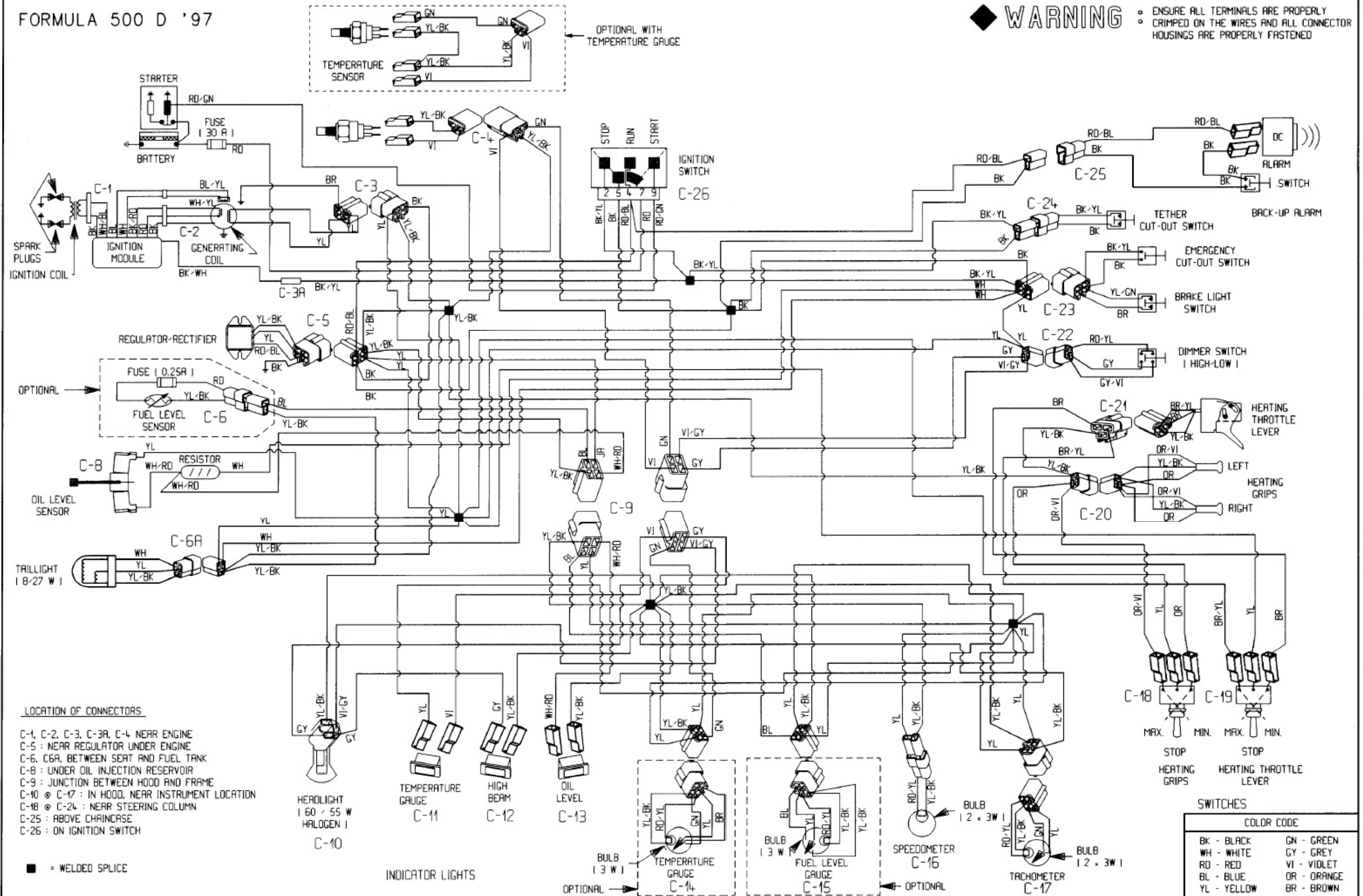
Following table shows wire colors related to electrical circuits.

WIRE COLORS	ELECTRICAL CIRCUIT	ADDITIONAL INFORMATION
BLACK/YELLOW	ENGINE SHUT OFF – Key switch – Tether cord switch – Emergency switch	Must be grounded to stop engine.
BLACK (small)	Ground for shut off	
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RED/GREEN	12 volts (D.C.) (+) For starter solenoid	
RED/BLUE	12 volts (D.C.) (+) Rectifier output	
GREY	12 volts (A.C.) High beam	Current returns by YELLOW/BLACK wire connected to headlamp.
VIOLET/GREY	12 volts (A.C.) Low beam	
WHITE	12 volts (A.C.) Brake light	Current returns by YELLOW/BLACK wire connected to taillight.
WHITE/RED	12 volts (A.C.) Low oil level	Current returns by YELLOW/BLACK wire connected to oil level sensor.
BLUE	12 volts (A.C.) Fuel level indicator	Current returns by YELLOW wire connected to fuel level sensor.
ORANGE	12 volts (A.C.) Heated grips (max.)	Current returns by YELLOW/BLACK wire connected to heating elements.
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BROWN	12 volts (A.C.) Heated throttle lever (max.)	
BROWN/YELLOW	12 volts (A.C.) Heated throttle lever (min.)	
GREEN	12 volts (A.C.) Temperature gauge	Current returns by YELLOW wire connected to sensor.
VIOLET	12 volts (A.C.) Engine overheating light.	

# FORMULA 500 D '97

## WARNING

- ENSURE ALL TERMINALS ARE PROPERLY CRIMPED ON THE WIRES AND ALL CONNECTOR HOUSINGS ARE PROPERLY FASTENED



# 1997 FORMULA 500 / 583

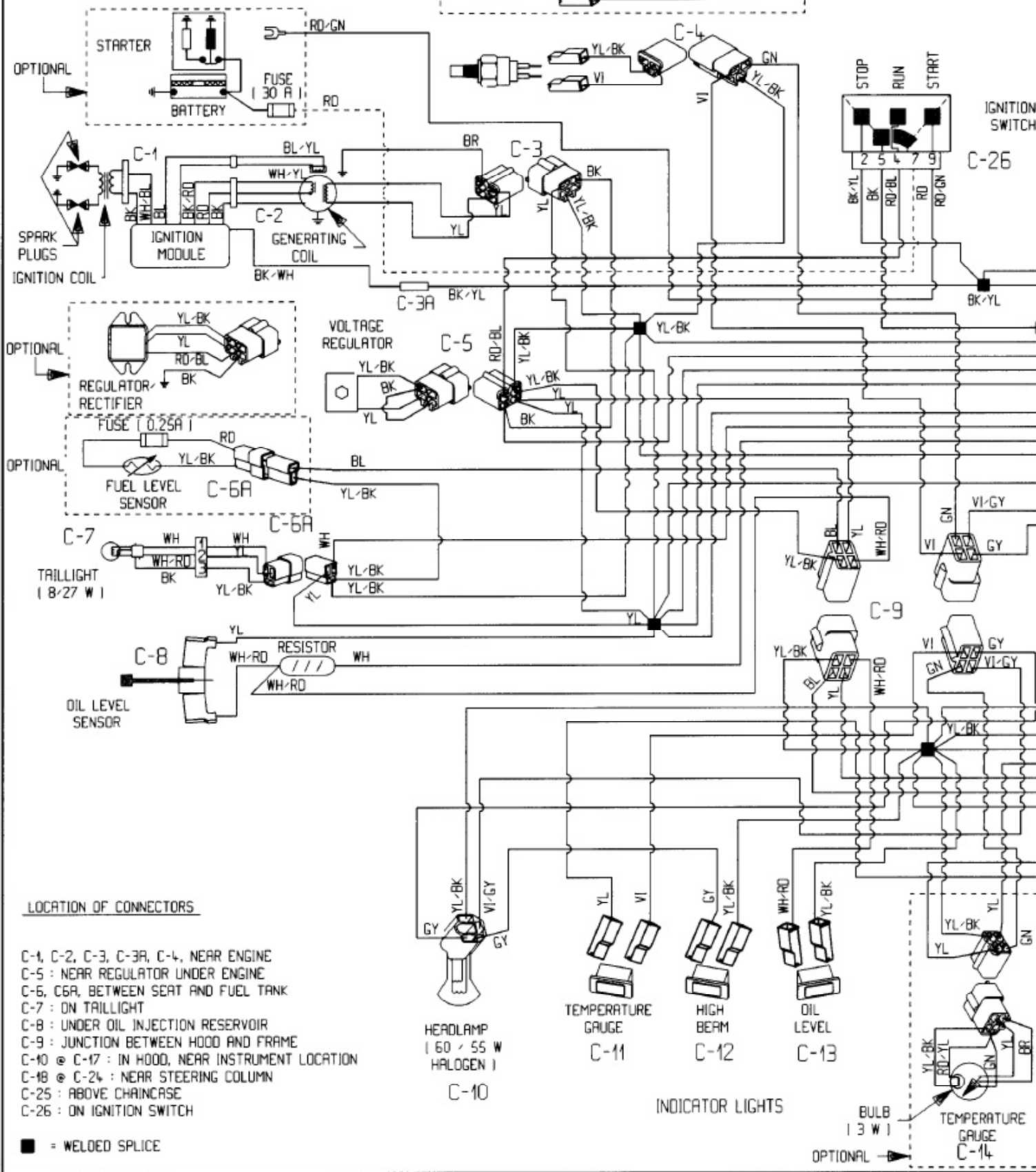
## 1997 SUMMIT 500 / 583 / 670

Following table shows wire colors related to electrical circuits.

WIRE COLORS	ELECTRICAL CIRCUIT	ADDITIONAL INFORMATION
BLACK/YELLOW	ENGINE SHUT OFF – Key switch – Tether cord switch – Emergency switch	Must be grounded to stop engine.
BLACK (small)	Ground for shut off	
BLACK (Big)	Ground for starter (–)	
YELLOW YELLOW/BLACK	12 volts (A.C.)	If shorted, magneto stops producing electricity.
RED	12 volts (D.C.) (+) For starter motor	
RED/GREEN	12 volts (D.C.) (+) For starter solenoid	
RED/BLUE	12 volts (D.C.) (+) Rectifier output	
GREY	12 volts (A.C.) High beam	Current returns by YELLOW/BLACK wire connected to headlamp.
VIOLET/GREY	12 volts (A.C.) Low beam	
WHITE	12 volts (A.C.) Brake light	Current returns by YELLOW/BLACK wire connected to taillight.
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ORANGE	12 volts (A.C.) Heated grips (max.)	Current returns by YELLOW/BLACK wire connected to heating elements.
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BROWN	12 volts (A.C.) Heated throttle lever (max.)	
BROWN/YELLOW	12 volts (A.C.) Heated throttle lever (min.)	
GREEN	12 volts (A.C.) Temperature gauge	Current returns by YELLOW wire connected to sensor.
VIOLET	12 volts (A.C.) Engine overheating light.	

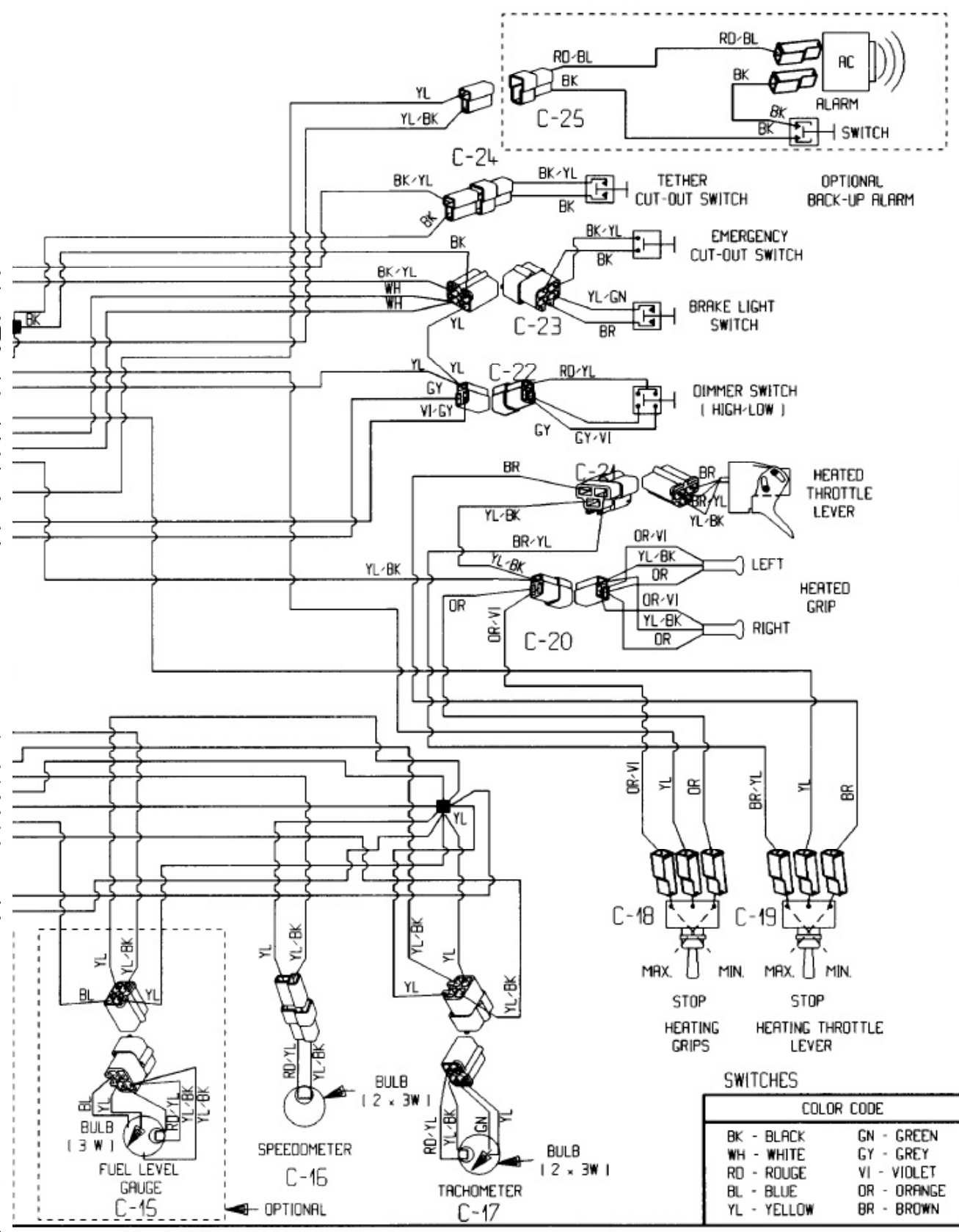


SUMMIT 500/583/670 '97  
FORMULA 500/583 '97



WARNING :

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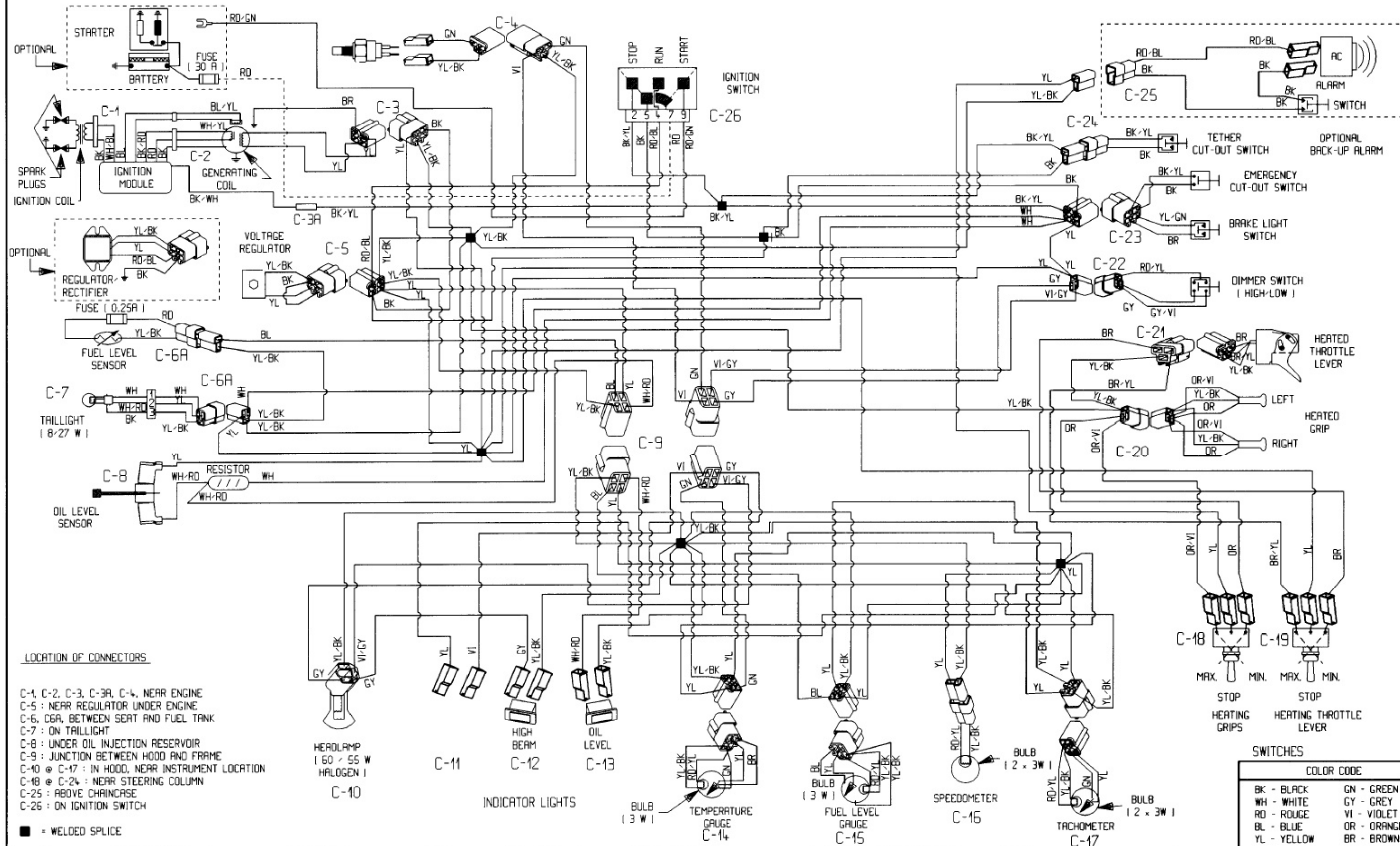
# 1997 FORMULA Z

Following table shows wire colors related to electrical circuits.

WIRE COLORS	ELECTRICAL CIRCUIT	ADDITIONAL INFORMATION
BLACK/YELLOW	ENGINE SHUT OFF – Key switch – Tether cord switch – Emergency switch	Must be grounded to stop engine.
BLACK (small)	Ground for shut off	
BLACK (Big)	Ground for starter (–)	
YELLOW YELLOW/BLACK	12 volts (A.C.)	If shorted, magneto stops producing electricity.
RED	12 volts (D.C.) (+) For starter motor	
RED/GREEN	12 volts (D.C.) (+) For starter solenoid	
RED/BLUE	12 volts (D.C.) (+) Rectifier output	
GREY	12 volts (A.C.) High beam	Current returns by YELLOW/BLACK wire connected to headlamp.
VIOLET/GREY	12 volts (A.C.) Low beam	
WHITE	12 volts (A.C.) Brake light	Current returns by YELLOW/BLACK wire connected to taillight.
WHITE/RED	12 volts (A.C.) Low oil level	Current returns by YELLOW/BLACK wire connected to oil level sensor.
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ORANGE	12 volts (A.C.) Heated grips (max.)	Current returns by YELLOW/BLACK wire connected to heating elements.
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BROWN	12 volts (A.C.) Heated throttle lever (max.)	
BROWN/YELLOW	12 volts (A.C.) Heated throttle lever (min.)	
GREEN	12 volts (A.C.) Temperature gauge	Current returns by YELLOW wire connected to sensor.
VIOLET	12 volts (A.C.) Engine overheating light.	

# WARNING :

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# 1997 GRAND TOURING 500 / 583

Following table shows wire colors related to electrical circuits.

WIRE COLORS	ELECTRICAL CIRCUIT	ADDITIONAL INFORMATION
BLACK/YELLOW	ENGINE SHUT OFF – Key switch – Tether cord switch – Emergency switch	Must be grounded to stop engine.
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RED	12 volts (D.C.) (+) For starter motor	
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RED/BLUE	12 volts (D.C.) (+) Rectifier output	
GREY	12 volts (A.C.) High beam	Current returns by YELLOW/BLACK wire connected to headlamp.
VIOLET/GREY	12 volts (A.C.) Low beam	
WHITE	12 volts (A.C.) Brake light	Current returns by YELLOW/BLACK wire connected to taillight.
WHITE/RED	12 volts (A.C.) Low oil level	Current returns by YELLOW/BLACK wire connected to oil level sensor.
BLUE	12 volts (A.C.) Fuel level indicator	Current returns by YELLOW wire connected to fuel level sensor.
ORANGE	12 volts (A.C.) Heated grips (max.)	Current returns by YELLOW/BLACK wire connected to heating elements.
ORANGE/VIOLET	12 volts (A.C.) Heated grips (min.)	
BROWN	12 volts (A.C.) Heated throttle lever (max.)	
BROWN/YELLOW	12 volts (A.C.) Heated throttle lever (min.)	
GREEN	12 volts (A.C.) Temperature gauge	Current returns by YELLOW wire connected to sensor.
VIOLET	12 volts (A.C.) Engine overheating light.	

GRAND-TOURING 500 '97  
GRAND-TOURING 583 '97

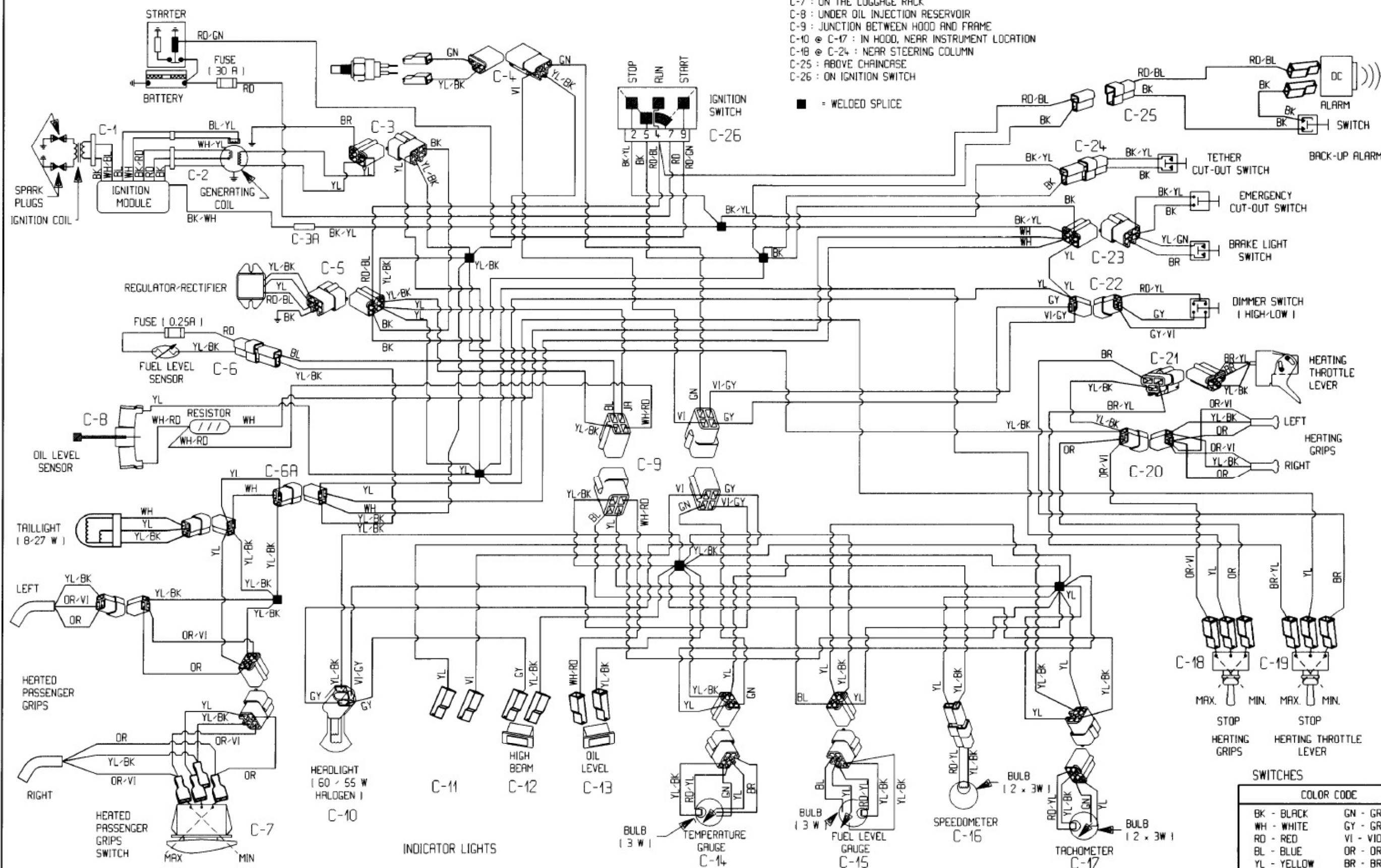
LOCATION OF CONNECTORS

C-1, C-2, C-3, C-3A, C-4 NEAR ENGINE  
C-5 : NEAR REGULATOR UNDER ENGINE  
C-6, C-6A, BETWEEN SEAT AND FUEL TANK  
C-7 : ON THE LUGGAGE RACK  
C-8 : UNDER OIL INJECTION RESERVOIR  
C-9 : JUNCTION BETWEEN HOOD AND FRAME  
C-10 @ C-17 : IN HOOD, NEAR INSTRUMENT LOCATION  
C-18 @ C-24 : NEAR STEERING COLUMN  
C-25 : ABOVE CHAINCASE  
C-26 : ON IGNITION SWITCH

■ = WELDED SPLICE

WARNING

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COLOR CODE	
BK - BLACK	GN - GREEN
WH - WHITE	GY - GREY
RD - RED	VI - VIOLET
BL - BLUE	OR - ORANGE
YL - YELLOW	BR - BROWN



# 1997 SKANDIC WT / SWT

Following table shows wire colors related to electrical circuits.

WIRE COLORS	ELECTRICAL CIRCUIT	ADDITIONAL INFORMATION
BLACK/YELLOW	ENGINE SHUT OFF – Key switch – Tether cord switch – Emergency switch	Must be grounded to stop engine.
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GREEN	12 volts (A.C.) Temperature gauge	Current returns by YELLOW wire connected to sensor.
VIOLET	12 volts (A.C.) Engine overheating light.	

SKANDIC WT '97  
SKANDIC SWT '97

