FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and new data for the TW200EU/EUC. For complete information on service procedures, it is necessary to use this Supplementary Service Manual together with following manual:

TW200T/TC Service Manual: LIT-11616-05-93

TECHNICAL PUBLICATIONS
SERVICE DIVISION
MOTORCYCLE OPERATIONS
YAMAHA MOTOR CO., LTD.

TW200EU/EUC
SUPPLEMENTARY SERVICE MANUAL
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NOTICE

This manual was written by the Yamaha Motor Company primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to put an entire mechanic's education into one manual, so it is assumed that persons using this book to perform maintenance and repairs on Yamaha motorcycles have a basic understanding of the mechanical concepts and procedures inherent in motorcycle repair technology. Without such knowledge, attempted repairs or service to this model may render it unfit to use and/or unsafe.

Yamaha Motor Company, Ltd. is continually striving to improve all models manufactured by Yamaha. Modifications and significant changes in specifications or procedures will be forwarded to all Authorized Yamaha dealers and will, where applicable, appear in future editions of this manual.

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HOW TO USE THIS MANUAL

PARTICULARLY IMPORTANT INFORMATION

This material is distinguished by the following notation.

NOTE: A NOTE provides key information to make procedures easier or clearer.

CAUTION: A CAUTION indicates special procedures that must be followed to avoid damage to the motorcycle.

WARNING: A WARNING indicates special procedures that must be followed to avoid injury to a motorcycle operator or person inspecting or repairing the motorcycle.

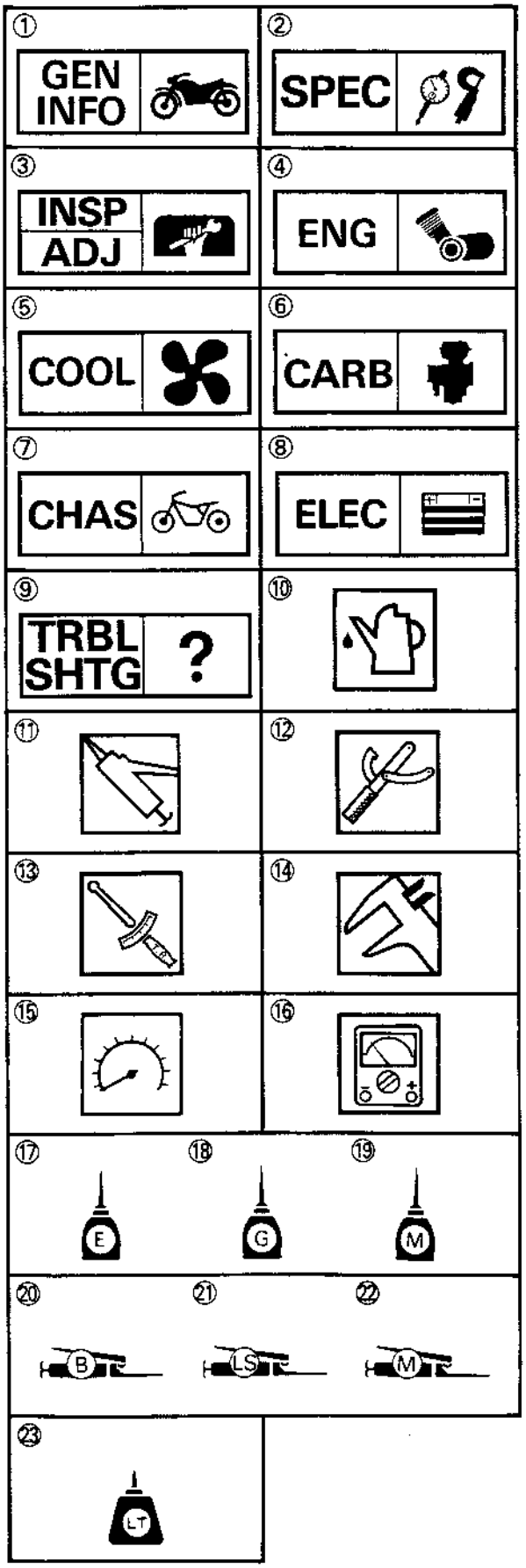
MANUAL FORMAT

All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspection operations.
In this revised format, the condition of a faulty component will precede an arrow symbol and the course of action required will follow the symbol, e.g.,

- Bearings
  Pitting/Damage→Replace.

EXPLODED DIAGRAM

Each chapter provides exploded diagrams before each disassembly section for ease in identifying correct disassembly and assembly procedures.



ILLUSTRATED SYMBOLS (Refer to the illustration)

Illustrated symbols ① to ⑨ are designed as thumb tabs to indicate the chapter's number and content.

① General information
② Specifications
③ Periodic inspection and adjustment
④ Engine
⑤ Cooling system
⑥ Carburetion
⑦ Chassis
⑧ Electrical
⑨ Troubleshooting

Illustrated symbols ⑩ to ⑯ are used to identify the specifications appearing in the text.

⑩ Filling fluid
⑪ Lubricant
⑫ Special tool
⑬ Tightening
⑭ Wear limit, clearance
⑮ Engine speed
⑯ Ω, V, A

Illustrated symbols ⑰ to ㉓ in the exploded diagram indicate grade of lubricant and location of lubrication point.

⑰ Apply engine oil
⑱ Apply gear oil
⑲ Apply molybdenum disulfide oil
⑳ Apply wheel bearing grease
㉑ Apply lightweight lithium-soap base grease
㉒ Apply molybdenum disulfide grease
㉓ Apply locking agent (LOCTITE®)

CONTENTS

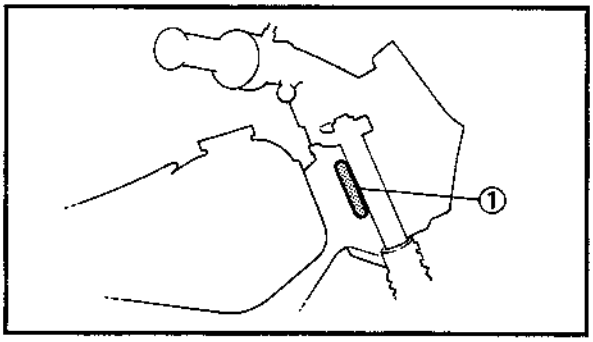
GENERAL INFORMATION 1

MOTORCYCLE IDENTIFICATION 1
- VEHICLE IDENTIFICATION NUMBER 1
- ENGINE SERIAL NUMBER 1

SPECIFICATIONS 2
- GENERAL SPECIFICATIONS 2
- MAINTENANCE SPECIFICATIONS 3

ELECTRICAL 5
- TW200EU/EUC CIRCUIT DIAGRAM 5
- CHARGING SYSTEM 7
- LIGHTING SYSTEM 11

TW200EU/EUC WIRING DIAGRAM



GENERAL INFORMATION

MOTORCYCLE IDENTIFICATION

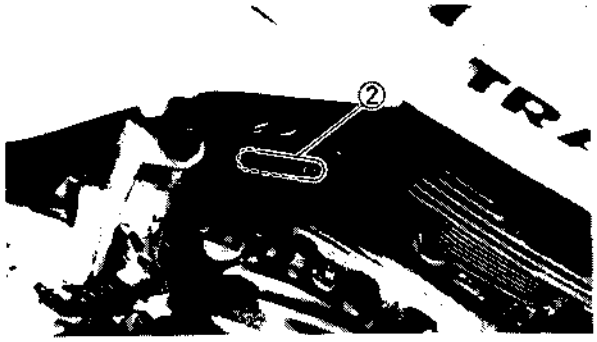
VEHICLE IDENTIFICATION NUMBER

The vehicle identification number ① is on the right side of the steering head pipe.

Starting Serial Number:
TW200EU .....JYA 2YGE0*JC000101
TW200EUC...JYA 3AWC0*JC000101

NOTE:

The vehicle identification number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your state.



ENGINE SERIAL NUMBER

The engine serial number ② is stamped into the elevated part of the right rear section of the engine.

Starting Serial Number:
TW200EU 2YG-000101
TW200EUC 3AW-000101

NOTE:

- The first three digits of these numbers are for model identifications; the remaining digits are the unit production number.
- Designs and specifications are subject to change without notice.

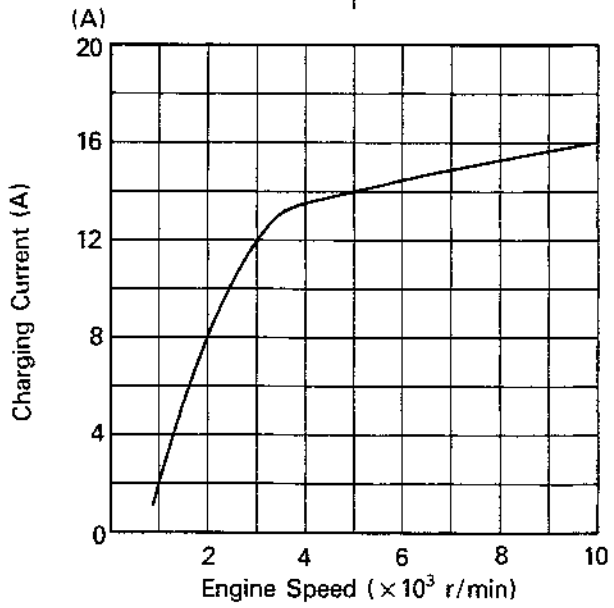
SPECIFICATIONS

GENERAL SPECIFICATIONS

Model	TW200EU/EUC
Model Code Number:	TW200EU: 2YG TW200EUC: 3AW
Vehicle Identification Number:	TW200EU: JYA2YGE0*JC000101 TW200EUC: JYA3AWC0*JC000101
Engine Starting Number:	TW200EU: 2YG-000101 TW200EUC: 3AW-000101
Dimensions:	
Overall Length	2,090 mm (82.3 in)
Overall Width	815 mm (32.1 in)
Overall Height	1,115 mm (43.9 in)
Seat Height	790 mm (31.1 in)
Wheelbase	1,325 mm (52.2 in)
Minimum Ground Clearance	250 mm (9.8 in)
Electrical:	
Ignition System	CDI
Generator System	A.C. magneto generator
Battery Type	GM7CZ-3D
Battery Capacity	12V, 7AH
Bulb Wattage/Quantity:	
Headlight	12V, 35W/35W×1
Tail/Brake Light	12V, 8W/27W×2
Flasher Light	12V, 27W/8W×2, 27W×2
Meter Light	12V, 3.4W×1

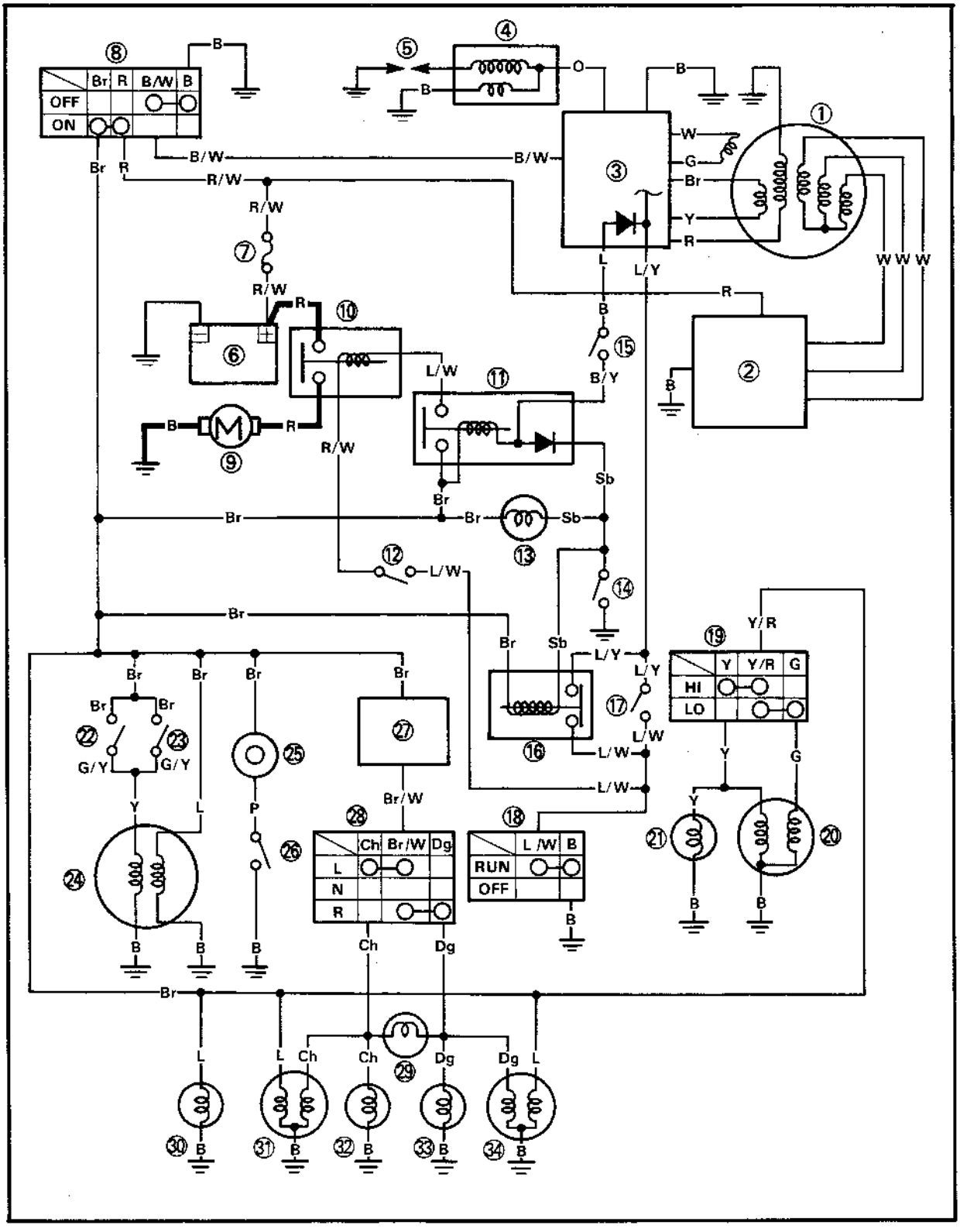
MAINTENANCE SPECIFICATIONS

ELECTRICAL

Model	TW200EU/EUC
C.D.I.:	
Magneto Model/Manufacturer	2YG/YAMAHA
Pickup Coil Resistance (Color)	650~790Ω at 20°C (68°F) (G—W)
Source Coil Resistance (Color)	590~720Ω at 20°C (68°F) (B—R)
C.D.I. Unit-Model/Manufacturer	2YG/YAMAHA
Charging System:	
Type	A.C. magneto generator
Model/Manufacturer	2YG/YAMAHA
Output	1.5A or less at 1,500 r/min 11A or more at 5,000 r/min 20A or less at 8,000 r/min
	
Charging Coil Resistance (Color)	0.32~0.39Ω at 20°C (68°F) (W—W)
Voltage Regulator:	
Type	Semi conductor type
Model/Manufacturer	SH569/SHINDENGEN
Rectifier:	
Model/Manufacturer	SH569/SHINDENGEN
Capacity	25A
Withstand Voltage	200V
Circuit Breaker:	
Type	Fuse
Amperage for Individual Circuit	
Main	15A

ELECTRICAL

TW200EU/EUC CIRCUIT DIAGRAM



① CDI magneto
② Rectifier/Regulator
③ CDI unit
④ Ignition coil
⑤ Spark plug
⑥ Battery
⑦ Fuse
⑧ Main switch
⑨ Starter motor
⑩ Starter relay
⑪ Starting circuit cut-off relay
⑫ "START" switch
⑬ "NEUTRAL" indicator light
⑭ Neutral switch
⑮ Clutch switch
⑯ Ignition circuit cut-off relay
⑰ Sidestand switch
⑱ "ENGINE STOP" switch
⑲ "LIGHTS" (Dimmer) switch
⑳ Headlight
㉑ "HIGH BEAM" indicator light
㉒ Front brake switch
㉓ Rear brake switch
㉔ Tail/Brake light
㉕ Horn
㉖ "HORN" switch
㉗ Flasher relay
㉘ "TURN" switch
㉙ "TURN" indicator light
㉚ Meter light
㉛ Flasher light (Front, Left)/Position light (Left)
㉜ Flasher light (Rear Left)
㉝ Flasher light (Rear Right)
㉞ Flasher light (Front Right)/Position light (Right)

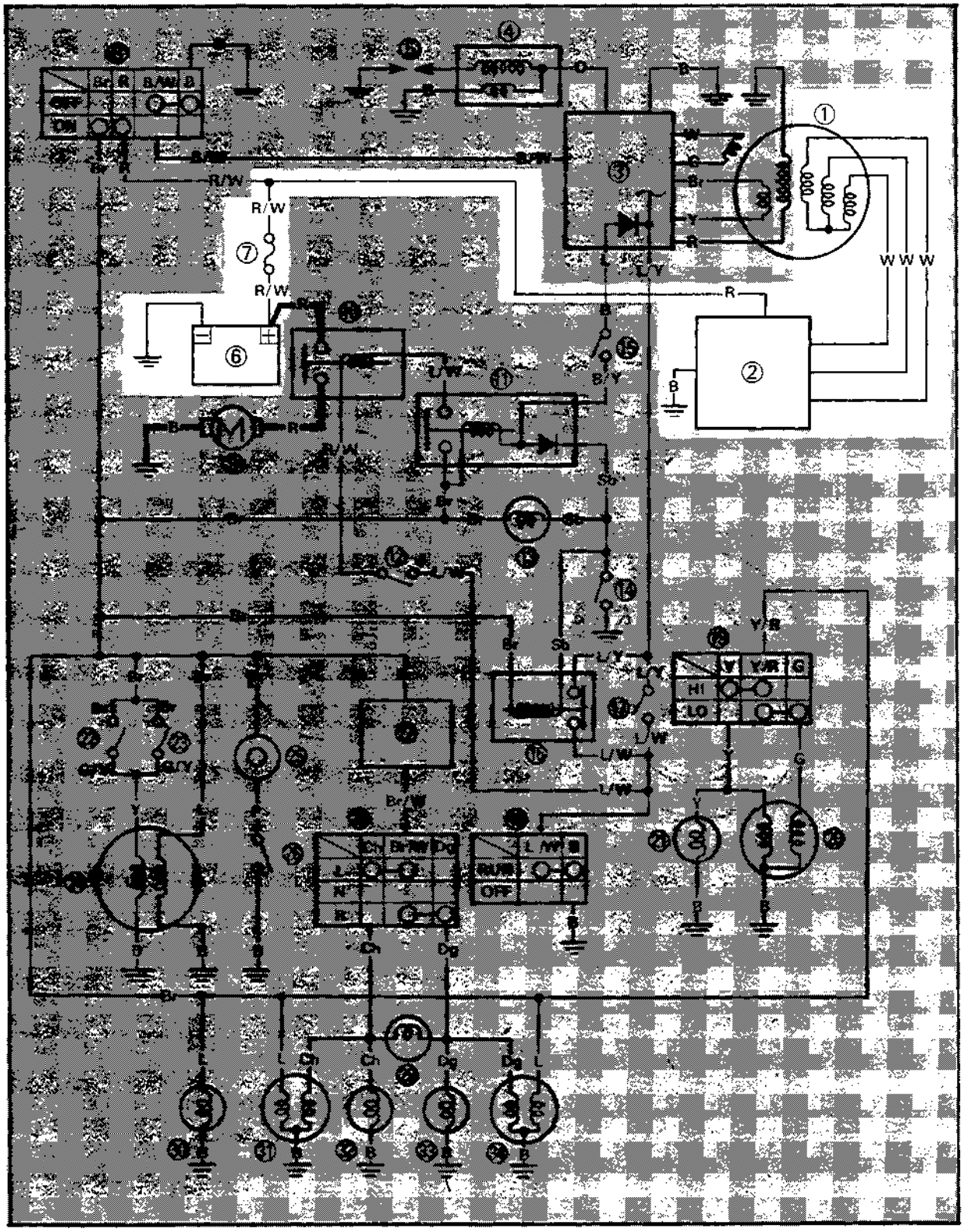
COLOR CODE

L	Blue
R	Red
G	Green
B	Black
Y	Yellow
P	Pink
W	White
O	Orange
Dg	Dark green
Br	Brown
Ch	Chocolate
Sb	Sky blue
R/W	Red/White
L/W	Blue/White
L/Y	Blue/Yellow
Y/R	Yellow/Red
B/Y	Black/Yellow
B/W	Black/White
G/Y	Green/Yellow
Br/W	Brown/White

CHARGING SYSTEM

CIRCUIT DIAGRAM

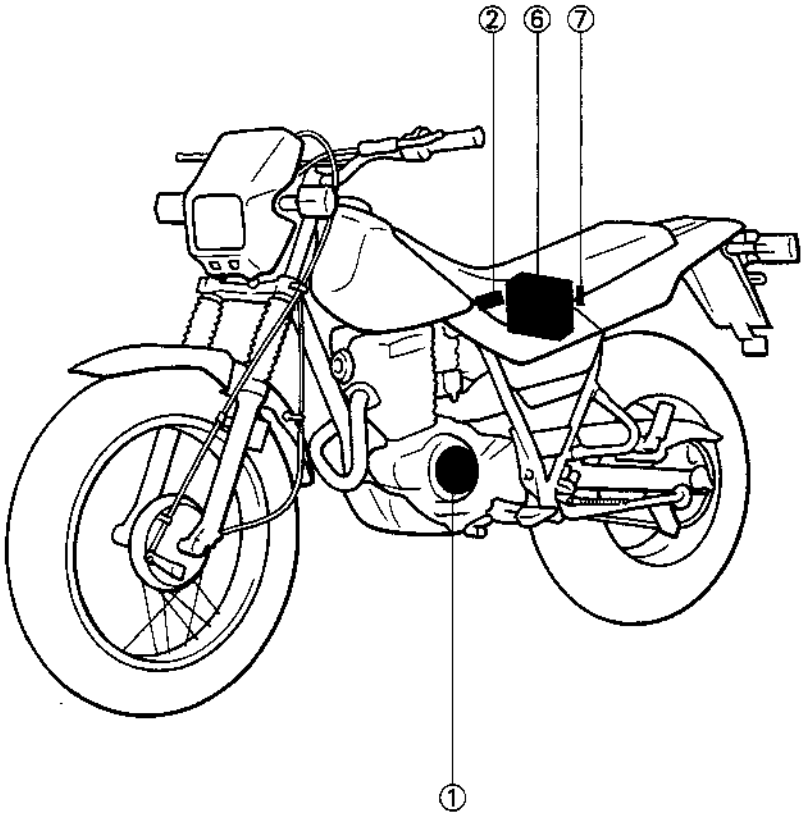
Below circuit diagram shows charging circuit.



NOTE:

For the encircled numbers and color codes, see page 6.

① CDI magneto
② Rectifier/Regulator
⑥ Battery
⑦ Fuse



TROUBLESHOOTING

NOTE:

Before this troubleshooting, remove the side covers and seat.

THE BATTERY IS NOT CHARGED.

1. Fuse inspection:
   Check the fuse condition. Refer to "CHAPTER 3. FUSE INSPECTION" section.

FAULTY → Fuse is faulty.
Replace it.

OK ↓

2. Battery inspection:
   Check the battery condition. Refer to "CHAPTER 3. BATTERY INSPECTION" section.

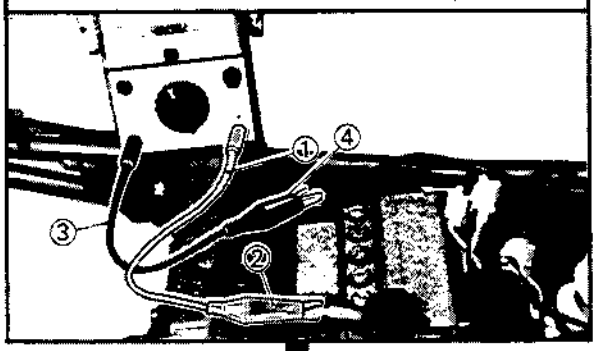
FAULTY → Battery is faulty.
Recharge or replace it.

OK ↓

3. Charging voltage test:
   - Connect the Pocket Tester (YU-03112) to the battery.
   - Start the engine and accelerate to about 5,000 r/min.
   - Measure the charging voltage.

Charging Voltage:
14 ~ 15V at 5,000 r/min

① Positive lead (Pocket Tester)
② Positive terminal (Battery)
③ Negative lead (Pocket Tester)
④ Negative terminal (Battery)



CHARGING VOLTAGE MEETS SPECIFICATION → Charging system is good.

OUT OF SPECIFICATION ↓

*

*

4. Charging coil resistance test:
   - Disconnect the CDI magneto coupler (White, white and white) from the wire-harness.
   - Connect the Pocket Tester (YU-03112) to the CDI magneto coupler.
   - Measure the charging coil resistance.

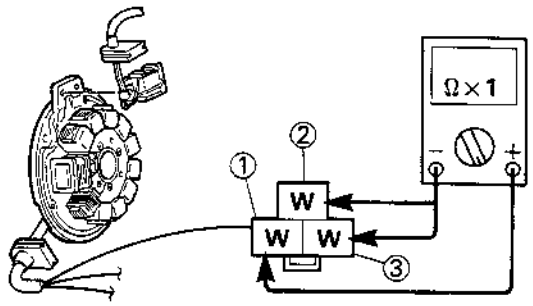
Charge Coil Resistance

Check 1:
0.32~0.39Ω at 20°C (68°F)
(White ① — White ②)

Check 2:
0.32~0.39Ω at 20°C (68°F)
(White ① — White ③)

Check 3:
0.32~0.39Ω at 20°C (68°F)
(White ② — White ③)

OUT OF SPECIFICATION → Charging coil is faulty. Replace stator assembly.



RESISTANCE MEETS SPECIFICATION

5. Check entire charging system for connections:
   Refer to "WIRING DIAGRAM" section.

POOR CONNECTION → Correct.

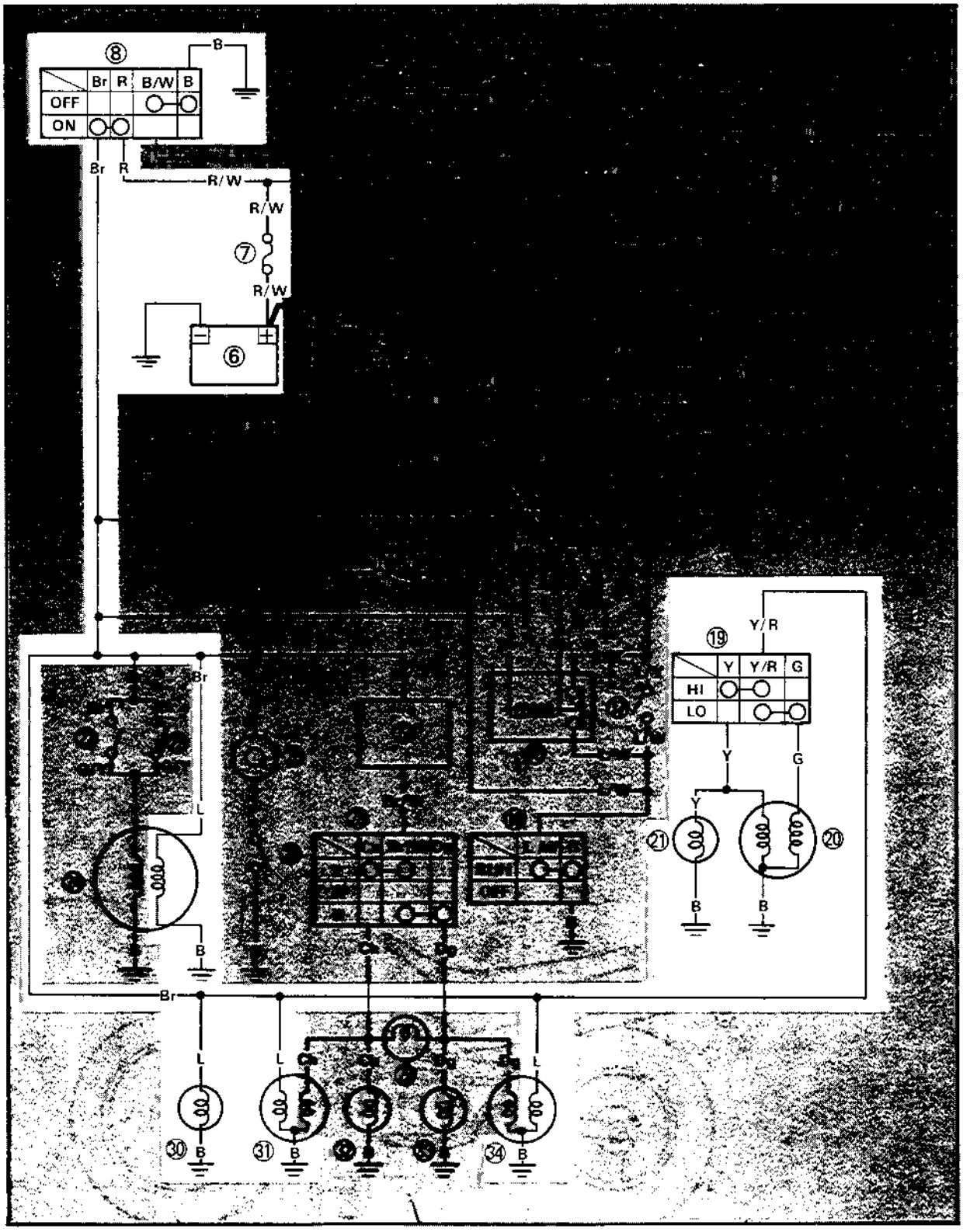
OK

Rectifier/Regulator is faulty. Replace it.

LIGHTING SYSTEM

CIRCUIT DIAGRAM

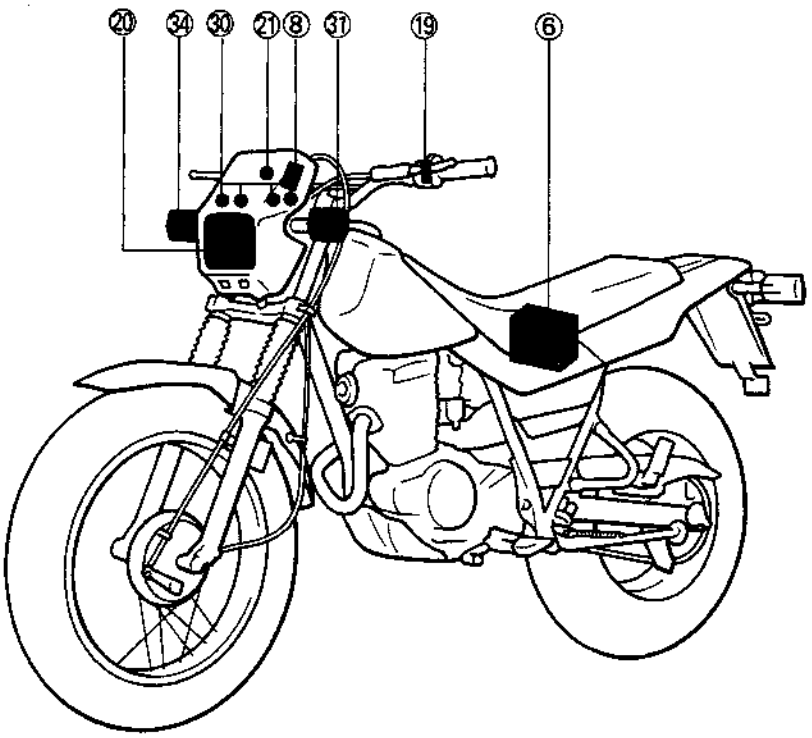
Below circuit diagram shows lighting circuit.

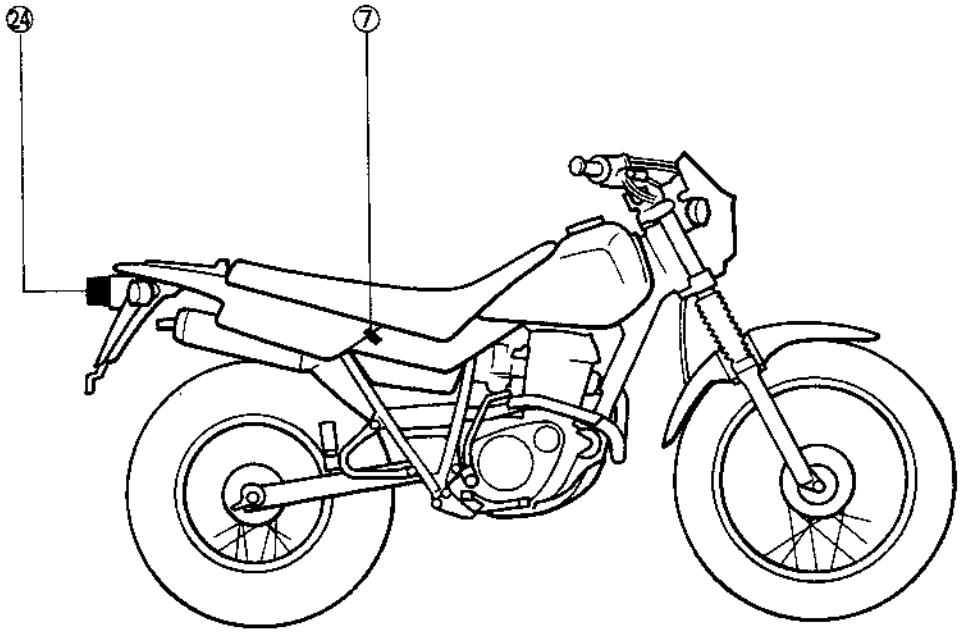


NOTE:

For the encircled numbers and color codes, see page 6.

⑥ Battery
⑦ Fuse
⑧ Main switch
⑲ "LIGHTS" (Dimmer) switch
⑳ Headlight
㉑ "HIGH BEAM" indicator light
㉔ Taillight
㉚ Meter light
㉛ Position light (Left)
㉞ Position light (Right)





TROUBLESHOOTING

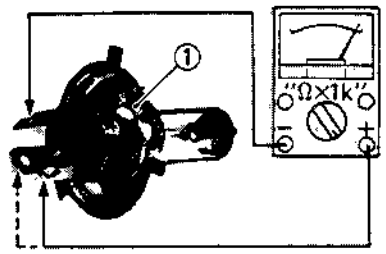
NOTE:

Before this troubleshooting, remove the side covers and seat.

HEADLIGHT DOES NOT COME ON.

1. Headlight bulb conduct check:
   - Remove the headlight bulb ①. Refer to "CHAPTER 3. HEADLIGHT BULB REPLACEMENT" section.
   - Connect the Pocket Tester (YU-03112) to the bulb terminals as shown, and check the bulb for continuity.

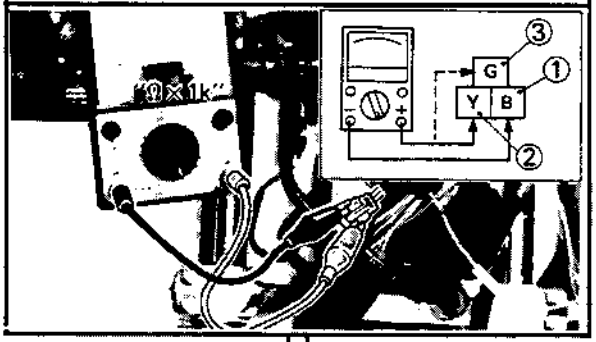
CONTINUITY DOES NOT EXIST ON ONE CIRCUIT → Bulb is faulty. Replace it.



CONTINUITY EXISTS ON BOTH CIRCUIT

2. Headlight bulb socket conduct check:
   - Install the bulb to the headlight socket.
   - Connect the Pocket Tester (YU-03112) to the headlight leads (Black ①, Yellow ② and Green ③), and check it for continuity.

CONTINUITY DOES NOT EXIST ON ONE CIRCUIT → Bulb socket is faulty. Replace it.



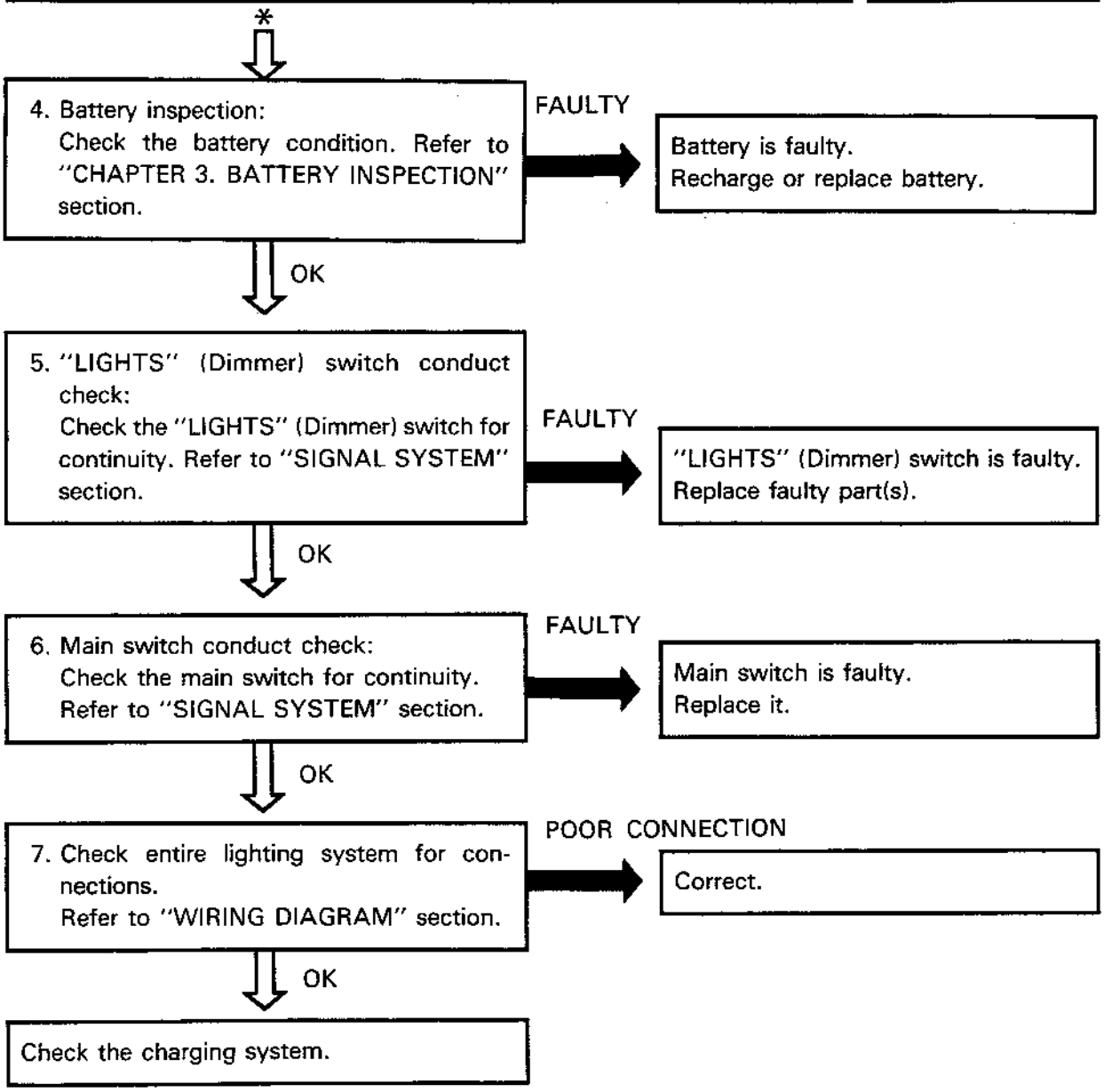
CONTINUITY EXISTS ON BOTH CIRCUIT

3. Fuse inspection:
   Check the fuse condition. Refer to "CHAPTER 3. FUSE INSPECTION" section.

FAULTY → Fuse is faulty. Replace it.

OK

*


*
4. Battery inspection:
Check the battery condition. Refer to "CHAPTER 3. BATTERY INSPECTION" section.
FAULTY
Battery is faulty.
Recharge or replace battery.
OK
5. "LIGHTS" (Dimmer) switch conduct check:
Check the "LIGHTS" (Dimmer) switch for continuity. Refer to "SIGNAL SYSTEM" section.
FAULTY
"LIGHTS" (Dimmer) switch is faulty.
Replace faulty part(s).
OK
6. Main switch conduct check:
Check the main switch for continuity.
Refer to "SIGNAL SYSTEM" section.
FAULTY
Main switch is faulty.
Replace it.
OK
7. Check entire lighting system for connections.
Refer to "WIRING DIAGRAM" section.
POOR CONNECTION
Correct.
OK
Check the charging system.

TROUBLESHOOTING

NOTE:

Before this troubleshooting, remove the side covers and seat.

THE POSITION LIGHT, METER LIGHT OR TAILLIGHT DO NOT COME ON.

1. Bulbs conduct check:
   Check the flasher light, meter light or tail/brake light bulb(s) condition.
   - FAULTY → Flasher light, meter light or tail/brake light bulb(s) is faulty. Replace faulty part(s).
   - OK ↓

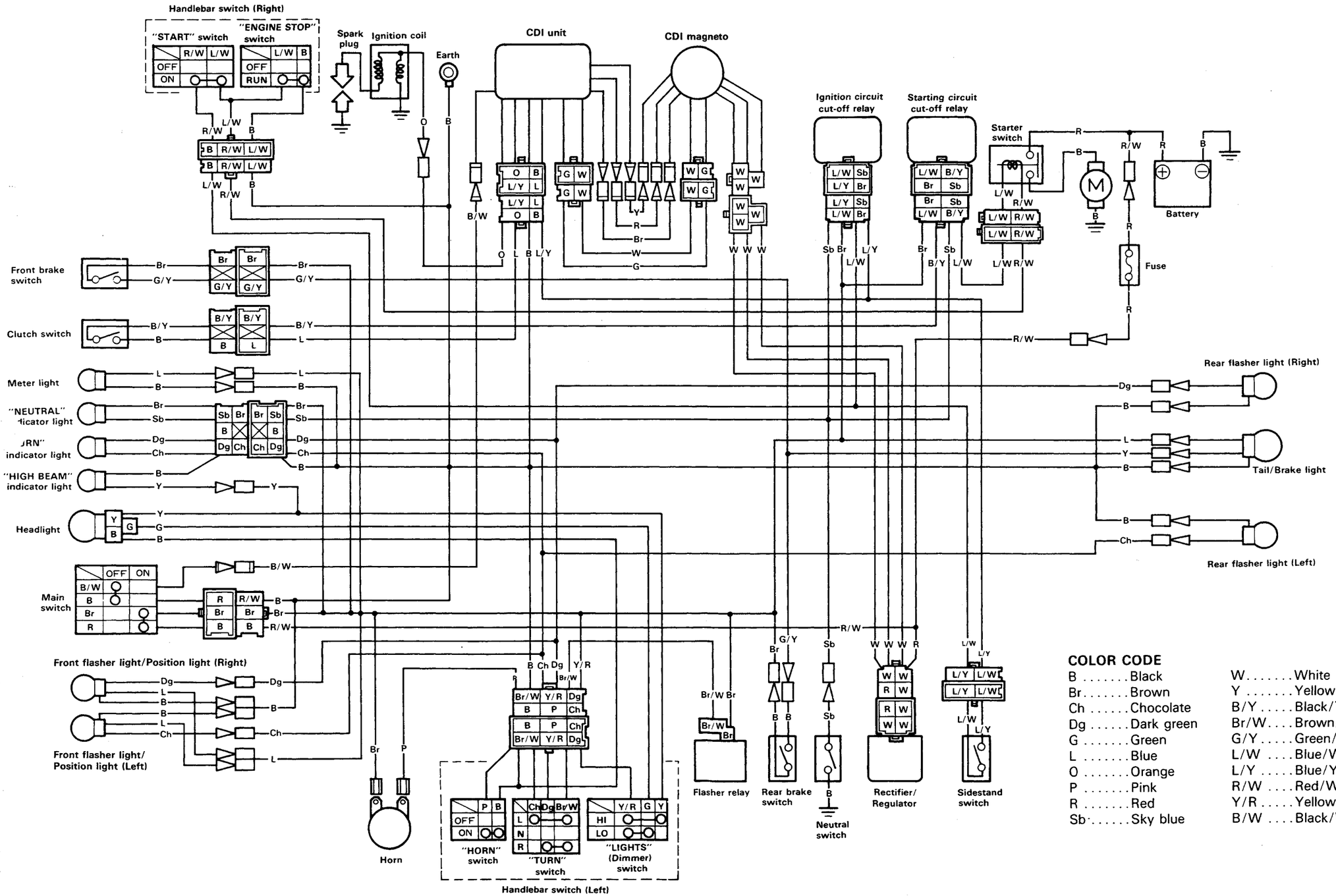
2. Fuse inspection:
   Check the fuse condition. Refer to "CHAPTER 3. FUSE INSPECTION" section.
   - FAULTY → Fuse is faulty. Replace it.
   - OK ↓

3. Battery inspection:
   Check the battery condition. Refer to "CHAPTER 3. BATTERY INSPECTION" section.
   - FAULTY → Battery is faulty. Recharge or replace battery.
   - OK ↓

4. Main switch conduct check:
   Check the main switch for continuity. Refer to "SIGNAL SYSTEM" section.
   - FAULTY → Main switch is faulty. Replace it.
   - OK ↓

5. Check entire lighting system for connections.
   Refer to "WIRING DIAGRAM" section.
   - POOR CONNECTION → Correct.

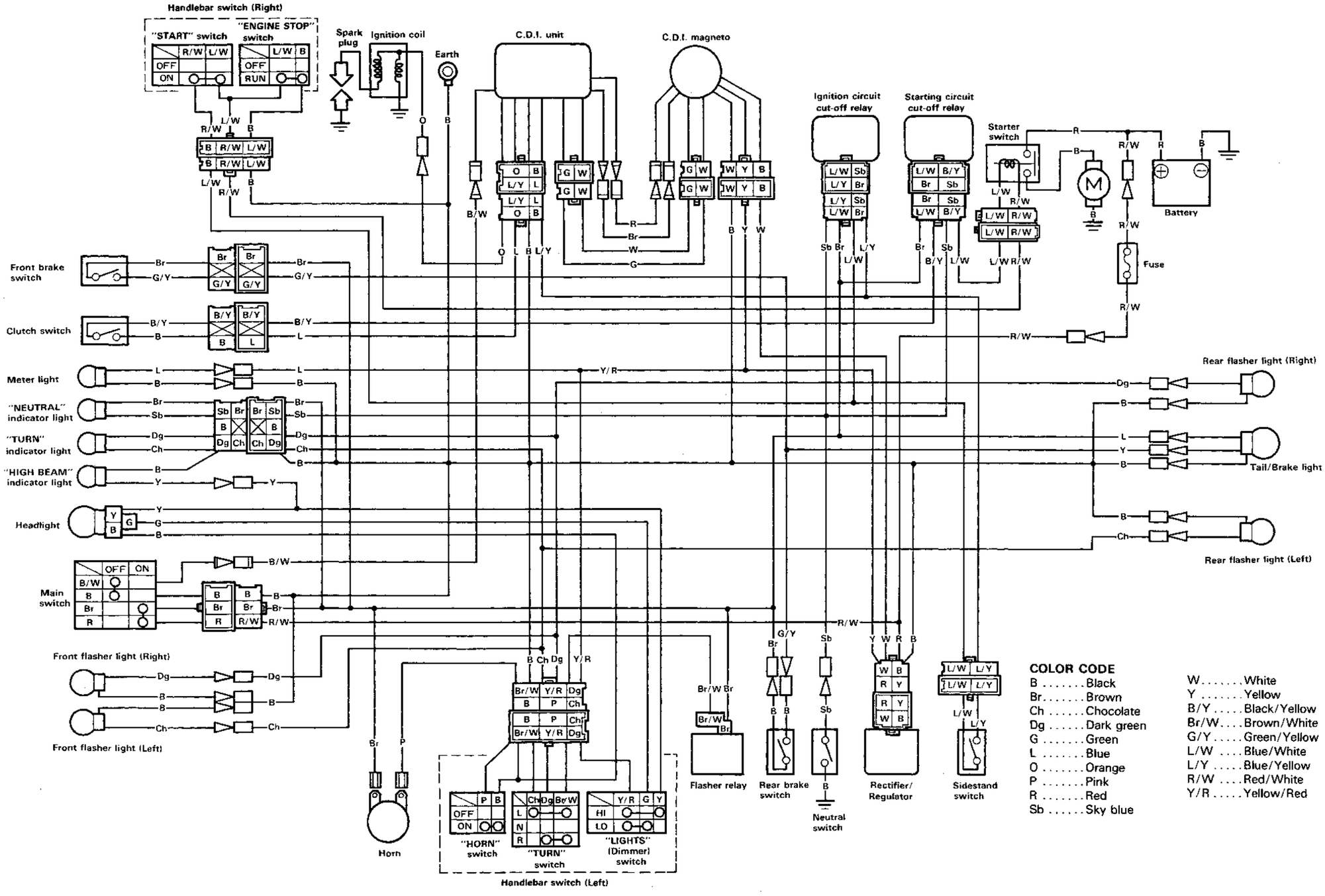
TW200EU/TW200EUC WIRING DIAGRAM



COLOR CODE

B .....Black	W.....White
Br.....Brown	Y .....Yellow
Ch .....Chocolate	B/Y .....Black/Yellow
Dg .....Dark green	Br/W....Brown/White
G .....Green	G/Y .....Green/Yellow
L .....Blue	L/W ....Blue/White
O .....Orange	L/Y .....Blue/Yellow
P .....Pink	R/W ....Red/White
R .....Red	Y/R .....Yellow/Red
Sb.....Sky blue	B/W ....Black/White

TW200T/TC WIRING DIAGRAM



COLOR CODE

B ..... Black	W ..... White
Br ..... Brown	Y ..... Yellow
Ch ..... Chocolate	B/Y ..... Black/Yellow
Dg ..... Dark green	Br/W .... Brown/White
G ..... Green	G/Y ..... Green/Yellow
L ..... Blue	L/W .... Blue/White
O ..... Orange	L/Y ..... Blue/Yellow
P ..... Pink	R/W .... Red/White
R ..... Red	Y/R ..... Yellow/Red
Sb ..... Sky blue	