



ENGINE DOES NOT START OR IS HARD TO START

1. Check fuel flow to carburetor

REACHING CARBURETOR



2. Perform spark test

GOOD SPARK



3. Test cylinder compression

COMPRESSION NORMAL



4. Start by following normal procedure

ENGINE DOES NOT FIRE



5. Remove and inspect spark plug

NOT REACHING CARBURETOR



POSSIBLE CAUSE

- (1) Fuel tank empty
- (2) Clogged fuel tube or fuel filter
- (3) Sticking float valve
- (4) Clogged fuel tank cap breather hole

WEAK OR NO SPARK



- (1) Faulty spark plugs
- (2) Fouled spark plugs
- (3) Faulty spark unit
- (4) Broken or shorted high tension wires
- (5) Faulty A.C. generator
- (6) Broken or shorted ignition coil
- (7) Faulty ignition switch
- (8) Faulty pulser generator

LOW COMPRESSION



- (1) Low battery charge
- (2) Improper valve clearance
- (3) Valve stuck open
- (4) Worn cylinder and piston rings
- (5) Damaged cylinder head gasket
- (6) Seized valve
- (7) Improper valve timing

ENGINE FIRES BUT STOPS



- (1) Improper choke operation
- (2) Carburetor incorrectly adjusted
- (3) Manifold leaking
- (4) Improper ignition timing (Spark unit or pulser generator)
- (5) Incorrect fast idle
- (6) Fuel contaminated

WET PLUG



- (1) Carburetor flooded
- (2) Choke closed
- (3) Throttle valve open
- (4) Air cleaner dirty



ENGINE LACKS POWER

1. Raise wheels off ground and spin by hand
WHEEL SPINS FREELY
2. Check tire pressure
PRESSURE NORMAL
3. Accelerate rapidly from low to second
ENGINE SPEED LOWERED WHEN CLUTCH IS RELEASED
4. Accelerate lightly
ENGINE SPEED INCREASES
5. Check ignition timing
CORRECT
6. Check valve clearance
CORRECT
7. Test cylinder compression
NORMAL
8. Check carburetor for clogging
NOT CLOGGED
9. Remove spark plug
NOT FOULED OR DISCOLORED
10. Check oil level and condition
CORRECT
11. Remove cylinder head cover and inspect lubrication
VALVE TRAIN LUBRICATED PROPERLY
12. Check for engine overheating
NOT OVERHEATING
13. Accelerate or run at high speed
ENGINE DOES NOT KNOCK

- POSSIBLE CAUSE**
- WHEELS DO NOT SPIN FREELY → (1) Brake dragging
(2) Worn or damaged wheel bearings
(3) Wheel bearing needs lubrication
(4) Final gear bearing damaged
 - PRESSURE LOW → (1) Punctured tire
(2) Faulty tire valve
 - ENGINE SPEED CHANGED WHEN CLUTCH IS RELEASED → (1) Clutch slipping
(2) Worn clutch disc/plate
(3) Warped clutch disc/plate
 - ENGINE SPEED NOT INCREASED → (1) Carburetor choke closed
(2) Clogged air cleaner
(3) Restricted fuel flow
(4) Clogged fuel tank breather tube
(5) Clogged muffler
 - INCORRECT → (1) Faulty spark unit
(2) Faulty pulser generator
(3) Faulty ignition advancer
 - INCORRECT → (1) Improper valve adjustment
(2) Worn valve seat
 - TOO LOW → (1) Valve stuck open
(2) Worn cylinder and piston rings
(3) Leaking head gasket
(4) Improper valve timing
 - CLOGGED → (1) Carburetor not serviced frequently enough
 - FOULED OR DISCOLORED → (1) Plugs not serviced frequently enough
(2) Spark plug with incorrect heat range
 - INCORRECT → (1) Oil level too high
(2) Oil level too low
(3) Contaminated oil
 - VALVE TRAIN NOT LUBRICATED PROPERLY → (1) Clogged oil passage
(2) Clogged oil control orifice
 - OVERHEATING → (1) Excessive carbon build-up in combustion chamber
(2) Use of poor quality fuel
(3) Clutch slipping
 - ENGINE KNOCKS → (1) Worn piston and cylinder
(2) Wrong type of fuel
(3) Excessive carbon build-up in combustion chamber
(4) Ignition timing too advanced (Faulty spark unit or advaner)



POOR PERFORMANCE AT LOW AND IDLE SPEEDS

- | | | |
|--|-------------------------------------|---|
| <p>1. Check ignition timing and valve clearance</p> <p>CORRECT</p> | <p>INCORRECT →</p> | <p>POSSIBLE CAUSE</p> <p>(1) Improper valve clearance
(2) Improper ignition timing (Faulty spark unit or spark advancer)</p> |
| <p>2. Check carburetor pilot screw adjustment</p> <p>CORRECT</p> | <p>INCORRECT →</p> | <p>See Fuel System Section</p> |
| <p>3. Check for leaking manifold</p> <p>NO LEAK</p> | <p>LEAKING →</p> | <p>(1) Deteriorated insulator O-ring
(2) Loose carburetor</p> |
| <p>4. Perform spark test</p> <p>GOOD SPARK</p> | <p>WEAK OR INTERMITTENT SPARK →</p> | <p>(1) Faulty, carbon or wet fouled spark plug
(2) Faulty spark unit
(3) A.C. generator faulty
(4) Faulty ignition coil
(5) Faulty spark advancer</p> |

POOR PERFORMANCE AT HIGH SPEED

- | | | |
|---|-------------------------------|---|
| <p>1. Check ignition timing and valve clearance</p> <p>CORRECT</p> | <p>INCORRECT →</p> | <p>(1) Improper valve clearance
(2) Faulty spark unit
(3) Faulty pulser generator
(4) Faulty spark advancer</p> |
| <p>2. Disconnect fuel tube at carburetor</p> <p>FUEL FLOWS FREELY</p> | <p>FUEL FLOW RESTRICTED →</p> | <p>(1) Lack of fuel in tank
(2) Clogged fuel line
(3) Clogged fuel tank breather hole
(4) Clogged fuel cock</p> |
| <p>3. Remove carburetor and check for clogged jet</p> <p>NO CLOG</p> | <p>CLOGGED →</p> | <p>(1) Clean</p> |
| <p>4. Check valve timing</p> <p>CORRECT</p> | <p>INCORRECT →</p> | <p>(1) Cam sprocket not installed properly</p> |
| <p>5. Check valve spring tension</p> <p>NOT WEAKENED</p> | <p>WEAK →</p> | <p>(1) Faulty spring</p> |

POOR HANDLING → Check tire pressure

- | | |
|---|--|
| <p>1. If steering is heavy →</p> | <p>(1) Steering top thread nut too tight
(2) Damaged steering head bearings</p> |
| <p>2. If either wheel is wobbling →</p> | <p>(1) Excessive wheel bearing play
(2) Distorted rim
(3) Improperly installed wheel hub
(4) Swing arm pivot bearing excessively worn
(5) Distorted frame
(6) Swing arm pivot adjusting bolt too tight</p> |
| <p>3. If the motorcycle pulls to one side →</p> | <p>(1) Faulty shock absorber
(2) Front and rear wheels not aligned
(3) Bent front fork
(4) Bent swing arm</p> |



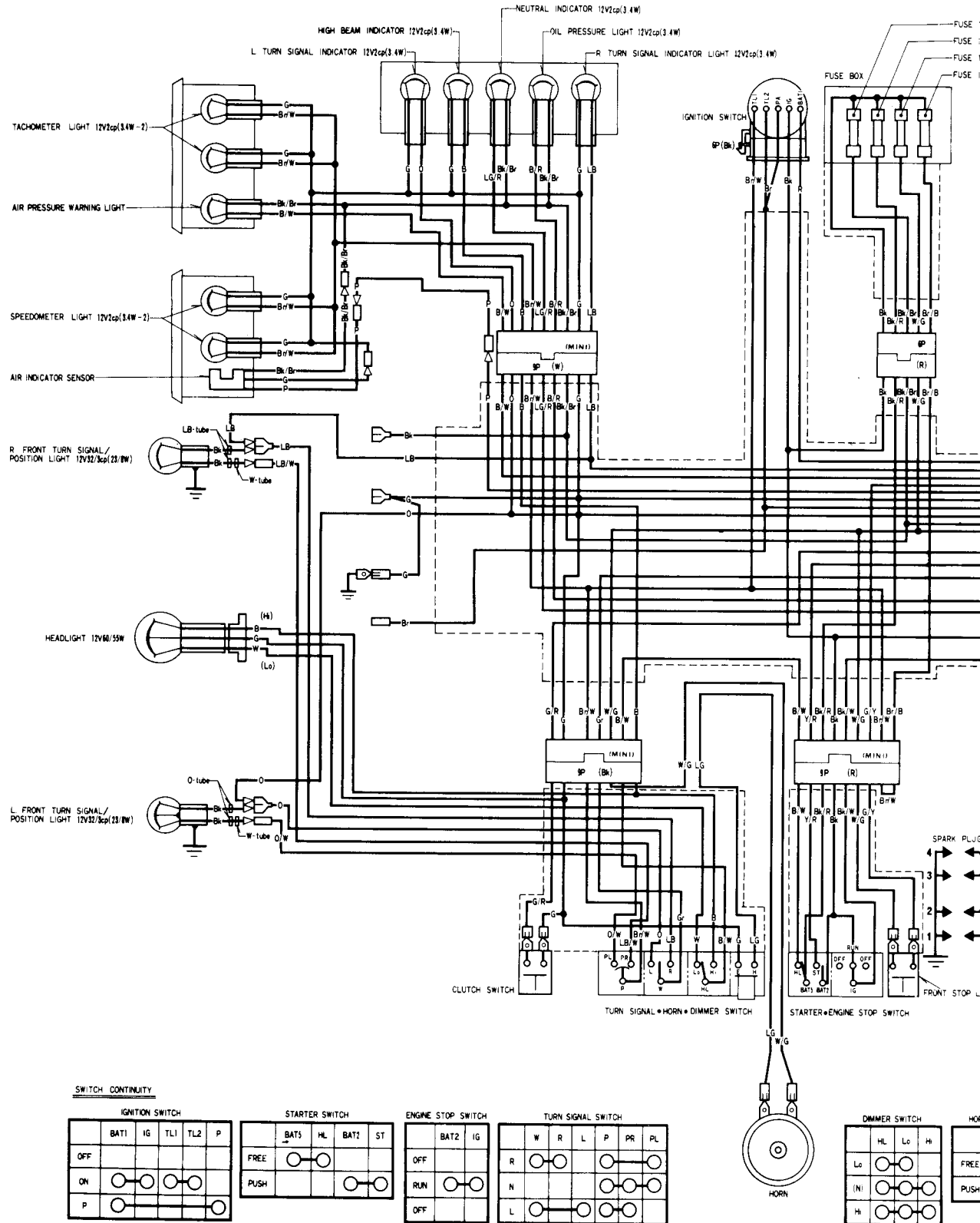
MEMO





HONDA CB900C

WIRING DIAGRAM



SWITCH CONTINUITY

IGNITION SWITCH					
	BAT1	IG	TL1	TL2	P
OFF					
ON	○	○	○	○	
P	○				○

STARTER SWITCH				
	BAT3	HL	BAT2	ST
FREE	○	○		
PUSH				○

ENGINE STOP SWITCH	
	BAT2 IG
OFF	
RUN	○
OFF	

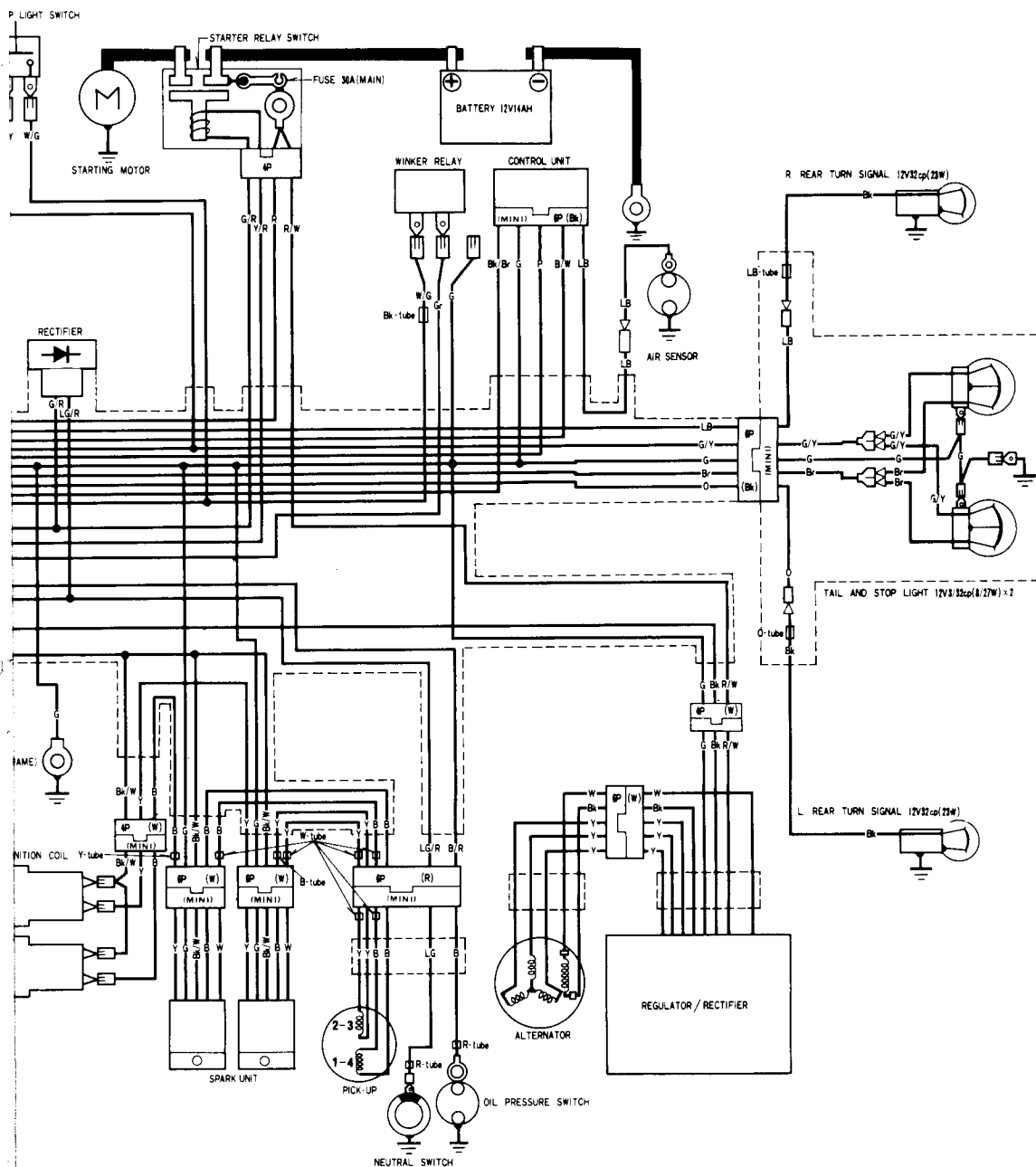
TURN SIGNAL SWITCH						
	W	R	L	P	PR	PL
R		○				
N				○	○	
L			○			

DIMMER SWITCH			
	HL	Lo	H
Lo	○	○	
(N)	○	○	○
H	○		○

WIRING DIAGRAM

HL - SUSPENSION

HL - FRONT REAR BRAKE - HORN
 ION - METER LIGHT - TAIL



- | | | | |
|----|-------------|----|------------|
| Bk | Black | Y | Yellow |
| W | White | B | Blue |
| LG | Light Green | Gr | Grey |
| R | Red | LB | Light Blue |
| G | Green | O | Orange |
| | | P | Pink |

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