



## ELECTRICAL

Troubles	Probable causes	Remedies
<b>Engine does not start</b>	<ol style="list-style-type: none"> <li>Battery <ul style="list-style-type: none"> <li>Discharged</li> <li>Poor contact of battery terminals</li> </ul> </li> <li>Main switch <ul style="list-style-type: none"> <li>Open or shorted circuit, disconnected connections</li> <li>Poor contact between main switch wire and wire harness</li> </ul> </li> <li>Ignition coil <ul style="list-style-type: none"> <li>Improperly insulated high tension coil</li> <li>Open or shorted circuit in ignition coil</li> </ul> </li> <li>Contact breaker <ul style="list-style-type: none"> <li>Open circuit in the primary coil</li> <li>Dirty ground point with oil or dust</li> <li>Point gap out of adjustment</li> <li>Improperly charged condenser</li> </ul> </li> </ol>	<p>Recharge or replace</p> <p>Repair</p> <p>Repair</p> <p>Repair</p> <p>Replace</p> <p>Replace</p> <p>Repair</p> <p>Clean</p> <p>Readjust</p> <p>Replace</p>
<b>Starting motor does not operate</b>	<ol style="list-style-type: none"> <li>Defective battery</li> <li>Poor contact of magnetic switch</li> <li>Poor contact of starting motor carbon brush</li> </ol>	<p>Charge or replace</p> <p>Repair or replace</p> <p>Repair or replace</p>
<b>Horn inoperative, poor sound or too weak sound</b>	<ol style="list-style-type: none"> <li>Horn <ul style="list-style-type: none"> <li>Cracked diaphragm</li> </ul> </li> <li>Horn button <ul style="list-style-type: none"> <li>Poor grounding</li> </ul> </li> <li>Wiring <ul style="list-style-type: none"> <li>Poor contact</li> </ul> </li> <li>Adjusting screw <ul style="list-style-type: none"> <li>Out of adjustment</li> </ul> </li> </ol>	<p>Replace</p> <p>Repair</p> <p>Repair</p> <p>Readjust</p>
<b>Tail light and head light inoperative</b>	<ol style="list-style-type: none"> <li>Fuse <ul style="list-style-type: none"> <li>Blown fuse or burnt bulb filament</li> </ul> </li> <li>Bulb <ul style="list-style-type: none"> <li>Burnt bulb filament</li> </ul> </li> <li>Switch <ul style="list-style-type: none"> <li>Poor contact of lighting switch</li> </ul> </li> <li>Wiring</li> </ol>	<p>Replace</p> <p>Readjust</p> <p>Readjust</p>
<b>Stop light inoperative</b>	<ol style="list-style-type: none"> <li>Bulb <ul style="list-style-type: none"> <li>Burnt or broken bulb filament</li> </ul> </li> <li>Front and tail stop light switch <ul style="list-style-type: none"> <li>Malfunction of switch</li> </ul> </li> <li>Wiring <ul style="list-style-type: none"> <li>Poor contact of leads</li> </ul> </li> </ol>	<p>Replace</p> <p>Readjust</p> <p>Readjust</p>
<b>Winker lamp blinks too fast or too slow</b>	<ol style="list-style-type: none"> <li>Bulb <ul style="list-style-type: none"> <li>Blinks unusually fast: improperly connected relay</li> </ul> </li> <li>Wiring <ul style="list-style-type: none"> <li>Blinks too fast: bulb with unsuitable wattage</li> <li>Blinks too slow: burnt or broken bulb</li> </ul> </li> <li>Defective relay</li> </ol>	<p>Replace</p> <p>Replace</p> <p>Replace</p> <p>Replace</p>



Trouble	Probable causes	Remedies
<b>Winker lamp inoperative</b>	<ol style="list-style-type: none"> <li>Winker lamp switch <ul style="list-style-type: none"> <li>Poor contact of winker relay</li> <li>Open circuit in winker relay coil</li> </ul> </li> <li>Bulb <ul style="list-style-type: none"> <li>Bulb wattage is smaller than rated wattage</li> </ul> </li> <li>Relay <ul style="list-style-type: none"> <li>Poor contact of winker relay</li> <li>Improperly connected leads</li> </ul> </li> </ol>	Replace Replace Replace Replace Replace
<b>No charging</b>	<ol style="list-style-type: none"> <li>Broken wire or shorted, loose connection</li> <li>Faulty coil due to short or grounding</li> <li>Faulty or shorted silicon diode</li> <li>Broken or shorted lead wire at regulator</li> <li>Regulator voltage at no load is too low</li> </ol>	Repair or replace Replace Replace Repair or replace Readjust
<b>Insufficient charging</b>	<ol style="list-style-type: none"> <li>Wiring <ul style="list-style-type: none"> <li>Broken wire, intermittent shorting or loose connection</li> </ul> </li> <li>Generator <ul style="list-style-type: none"> <li>Shorting across layer in the field coil (resistance indicated in continuity test)</li> <li>Shorting across layer in stator coil</li> <li>Open circuit in one of the stator coil</li> <li>Faulty or shorted silicon diode</li> </ul> </li> <li>Regulator <ul style="list-style-type: none"> <li>Voltage below specified value at no load</li> <li>Dirty or pitted points</li> <li>Coil or resistor internally shorted</li> </ul> </li> <li>Battery <ul style="list-style-type: none"> <li>Low electrolyte level</li> <li>Defective battery plates</li> </ul> </li> </ol>	Repair, retighten Replace Replace Replace Replace Readjust Polish or replace Replace Add distilled water Replace
<b>Excessive charging</b>	<ol style="list-style-type: none"> <li>Wiring <ul style="list-style-type: none"> <li>P terminal circuit and F terminal circuit shorted resulting in split wound generator</li> </ul> </li> <li>Battery <ul style="list-style-type: none"> <li>Internal short</li> </ul> </li> <li>Regulator <ul style="list-style-type: none"> <li>Excessive voltage at no load voltage</li> <li>Improper grounding</li> <li>Broken coil lead wire</li> </ul> </li> </ol>	Repair Replace Repair Provide proper ground Repair, replace
<b>Unstable charging voltage</b>	<ol style="list-style-type: none"> <li>Wiring <ul style="list-style-type: none"> <li>Bare wire shorting intermittently under vibration or broken wire making partial contact</li> </ul> </li> <li>Generator <ul style="list-style-type: none"> <li>Layer short (intermittent shorting)</li> </ul> </li> <li>Generator <ul style="list-style-type: none"> <li>Intermittent open circuit in the coil</li> <li>Improperly adjusted voltage</li> <li>Defective key switch</li> <li>Dirty points</li> </ul> </li> </ol>	Repair or replace Repair or replace Repair or replace Readjust Replace Clean



Trouble	Probable causes	Remedies
<b>Self discharge</b> Battery discharges in addition to that caused by the connected load.	<ol style="list-style-type: none"> <li>1. Dirty contact areas and case.</li> <li>2. Contaminated electrolyte or electrolyte excessively concentrated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Always maintain the exterior clean.</li> <li>2. Handle the replenishing electrolyte with care.</li> </ol>
<b>C. Large discharge rate</b> Specific gravity gradually lowers and around 1.100 (S.G.), the winker and horn no longer function.	<ol style="list-style-type: none"> <li>1. The fuse and the wiring are satisfactory, but loads such as winker and horn do not function. In this condition the motorcycle will operate but with long use, both <math>\oplus</math> and <math>\ominus</math> plates will react with the sulfuric acid and form lead sulfide deposits, (sulfation) making it impossible to recharge.</li> </ol>	<ol style="list-style-type: none"> <li>1. When the specific gravity falls below 1.200 (20°C: 68°F), the battery should be recharged immediately.</li> <li>2. When the battery frequently becomes discharged while operating at normal speed, check the generator for proper output.</li> <li>3. If the battery discharges under normal charge output, it is an indication of overloading, remove some of the excess load.</li> </ol>
<b>High charging rate</b> The electrolyte level drops rapidly but the charge is always maintained at 100% and the condition appears satisfactory. (Specific gravity over 1.260)	<ol style="list-style-type: none"> <li>1. The deposit will heavily accumulate at the bottom and will cause internal shorting and damage the battery.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check to assure proper charging rate.</li> </ol>
<b>Specific gravity drop</b> Electrolyte evaporates	<ol style="list-style-type: none"> <li>1. Shorted.</li> <li>2. Insufficient charging.</li> <li>3. Distilled water overfilled.</li> <li>4. Contaminated electrolyte.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check specific gravity measurement.</li> <li>2. If the addition of distilled water causes a drop in specific gravity, add sulfuric acid and adjust to proper value.</li> </ol>
<b>Sulfation</b> The electrode plates are covered with white layer or in spot.	<ol style="list-style-type: none"> <li>1. Charging rate is too small or else excessively large.</li> <li>2. The specific gravity or the mixture of the electrolyte is improper.</li> <li>3. Battery left in a discharge condition for a long period. (left with the switch turned on).</li> <li>4. Exposed to excessive vibration due to improper insulation.</li> <li>5. Motorcycle stored during cold season with battery connected.</li> </ol>	<ol style="list-style-type: none"> <li>1. When motorcycle is in storage, the battery should be recharged once a month even though the motorcycle is not used.</li> <li>2. Check the electrolyte periodically and always maintain the proper level.</li> <li>3. In a lightly discharged condition, perform recharging and discharging several times by starting the engine may be sufficient.</li> </ol>
<b>Spark plug electrode coated with carbon deposit</b>	<ol style="list-style-type: none"> <li>1. Too rich a fuel.</li> <li>2. Excessive idle speed.</li> <li>3. Poor quality gasoline.</li> <li>4. Clogged air cleaner.</li> <li>5. Use of cold spark plug.</li> </ol>	<p>Adjust carburetor. Adjust idle speed. Use good quality gasoline. Service the air cleaner. Use proper heat range plug.</p>
<b>Spark plug electrode fouled with oil</b>	<ol style="list-style-type: none"> <li>1. Worn piston ring.</li> <li>2. Worn piston and cylinder.</li> <li>3. Excessive clearance between valve guide and valve stem.</li> </ol>	<p>Replace piston ring. Replace piston or cylinder. Replace valve guide or valve.</p>
<b>Spark plug electrode overheated or burnt</b>	<ol style="list-style-type: none"> <li>1. Use of hot spark plug.</li> <li>2. Engine overheating.</li> <li>3. Improper ignition timing.</li> <li>4. Loose spark plug or damaged spark plug hole thread.</li> <li>5. Too lean a fuel mixture.</li> </ol>	<p>Use proper heat range plug. Readjust ignition timing. Retighten plug or replace cylinder head. Adjust carburetor.</p>
<b>Damage</b>	Spark plug overtightened.	Replace with a new spark plug.



## 8. PERIODICAL MAINTENANCE

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www.honda4fun.com

### MAINTENANCE SCHEDULE

The following list indicates the items and time interval of preventive maintenance by which the best riding conditions are assured.

The operating procedures for individual items are explained in the section of MAINTENANCE OPERATIONS.

The "months" in the list represents the lapse of months since the purchase of a new motorcycle and the "mileage" is a reading on the odometer.

After 24 months or 12,000 miles (20,000 km), repeatedly perform all items which are

described in the column of 6, 12, 18 and 24 months at every 6 months or 3,000 miles (5,000 km) intervals.

The following parts should be severely inspected at the time of 24 months garage service.

- \* Front brake hose
- \* Brake cable
- \* Front brake stop switch
- \* Brake master cylinder primary and secondary caps
- \* Brake disc caliper piston seal
- \* Carburetor rubber caps
- \* Fuel lines

Months or miles, whichever comes first Service required	Month	—	6	12	18	24	Page Reference
	Mile Km	600 1,000	3,000 5,000	6,000 10,000	9,000 15,000	12,000 20,000	
Engine							
Change engine oil	○	Every 2,000 Miles (3,000 km)					13
Change oil filter element	○	Every 4,000 Miles (6,000 km)					14
Clean oil screen filter						○	37
Service spark plugs		○	○	○	○	○	13, 91
Service contact breaker points		○	○	○	○	○	10
Adjust ignition timing	○	○	○	○	○	○	10
Check ignition primary and secondary cables				○		○	89
Adjust valve tappet clearances	○	○	○	○	○	○	7
Adjust cam chain	○	○	○	○	○	○	12
Service air cleaner		○	○	○	○	○	16
Adjust carburetors		○	○	○	○	○	8
Check throttle valve operation		○	○	○	○	○	10
Clutch							
Adjust clutch	○	○	○	○	○	○	12
Battery							
Service battery	○	○	○	○	○	○	16
Fuel system							
Clean fuel valve strainer		○	○	○	○	○	85
Check fuel tank and fuel lines		○	○	○	○	○	85



Months or miles, whichever comes first	Month	—	6	12	18	24	Page Reference
	Mile Km	600 1,000	3,000 5,000	6,000 10,000	9,000 15,000	12,000 20,000	
Service required							
Steering and Front Suspension							
Check steering head bearings				○		○	78
Check steering handle lock				○		○	78
Check handle bar holder			○	○	○	○	—
Check front fork top plate			○	○	○	○	—
Check front fork bottom case			○	○	○	○	71
Change front fork oil				○		○	17
Rear suspension							
Grease rear fork			○	○	○	○	83
Check rear fork			○	○	○	○	83
Check rear suspension mounting bolts			○	○	○	○	83
Wheels and Brakes							
Check front and rear wheel spokes	○	○	○	○	○	○	66
Check front and rear wheel rims and hubs			○	○	○	○	66
Check front and rear wheels, bearings and axles				○		○	67
Check front and rear tires			○	○	○	○	—
Check front brake caliper and pad linings			○	○	○	○	14, 71
Check front brake lines				○		○	14
Check brake fluid level	○	○	○	○	○	○	14
Check and adjust brake pedal	○	○	○	○	○	○	15
Check rear brake shoe linings				○		○	75
Check rear brake stopper arm			○	○	○	○	—
Frame and Final Drive							
Check frame			○	○	○	○	—
Check exhaust system			○	○	○	○	—
Check side stand			○	○	○	○	—
Service and adjust final drive chain	○	○	○	○	○	○	16
Check final drive and driven sprockets				○		○	—
Lights and Accessories							
Check lights and switches			○	○	○	○	—
Check horn			○	○	○	○	—
Check speedometer and tachometer			○	○	○	○	—

## 9. TECHNICAL DATA

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### A. Specifications

	Item	English	Metric
DIMENSION	Overall Length	83.0 in.	2,105 mm
	Overall Width	32.5 in.	825 mm
	Overall Height	44.0 in.	1,115 mm
	Wheel Base	55.5 in.	1,405 mm
	Seat Height	31.7 in.	805 mm
	Foot Peg Height	12.4 in.	315 mm
	Ground Clearance	6.5 in.	165 mm
	Dry Weight	403.5 lb.	183 kg
FRAME	Type	Double cradle tubular steel	
	F. Suspension, Travel	Telescopic fork, travel 4.8 in.,	121 mm
	R. Suspension, Travel	Swing arm, travel 3.1 in.,	78.5 mm
	F. Tire Size, Type	3.15-19 (4 PR) Rib tire, tire air pressure 25.6 psi	1.8 kg/cm <sup>2</sup>
	R. Tire Size, Type	3.50-18 (4 PR) Block tire, tire air pressure 28.5 psi	2.0 kg/cm <sup>2</sup>
	F. Brake, Lining Area	Disc brake, lining area 32.36 in <sup>2</sup> ×2	288.8 cm <sup>2</sup> ×2
	R. Brake, Lining Area	Internal expanding shoe, lining area 26.28 in <sup>2</sup> ×2	169.6 cm <sup>2</sup> ×2
	Fuel Capacity	3.7 U.S. gal. 3.1 Imp. gal.	14.0 lit.
	Fuel Reserve Capacity	1.6 U.S. gal. 0.9 Imp. gal.	4.0 lit.
	Caster Angle	64°	
	Trail Length	4.1 in.	105 mm
	Front Fork Oil Capacity	5.4 ozs	160 cc
ENGINE	Type	Air-cooled, 4-stroke, O.H.C. engine	
	Cylinder Arrangement	4-cylinder in-line	
	Bore and Stroke	2.205×1.992 in.	56.0×50.6 mm
	Displacement	30.38 cu in.	498 cc
	Compression Ratio	9.0	
	Carburetor, Venturi Dia.	Four, piston valve, 22 mm dia.	
	Valve Train	Chain drive overhead camshaft	
	Maximum Horsepower	50 BHP (SAE)/9,000 rpm	
	Maximum Torque	30.4 lb-ft/7,500 rpm	4.2 kg-m/7,500 rpm
	Oil Capacity	3.2 U.S. qt. 2.6 Imp. qt	3.0 lit.
	Lubrication System	Forced pressure and wet sump	





	Item	English	Metric
ENGINE	Air Filtration	Paper element	
	Valve Tappet Clearance	IN: 0.002, EX: 0.003 in.	IN: 0.05, EX: 0.08 mm
	Engine weight	152 lb.	69 kg
	Air Screw Opening	1 ± 1/8 turns	
	Idle Speed	1,000 rpm	
DRIVE TRAIN	Clutch	Wet, multi-plate	
	Transmission	5-speed, constant mesh	
	Primary Reduction	2.000	
	Gear Ratio I	2.353	
	" II	1.636	
	" III	1.269	
	" IV	1.036	
	" V	0.900	
	Final Reduction	2.000, drive sprocket 17, driven sprocket 34 T	
	Gear Shift Pattern	Left foot return type	
ELECTRICAL	Ignition	Battery and ignition coil	
	Starting System	Electrical motor and kick pedal	
	Alternator	Three phase A.C 12 V-0.2 KW/5,000 rpm	
	Battery Capacity	12 V-12 AH	
	Spark Plug	NGK D-7 ES, DENSO X-22 ES	
	Headlight	Low/high. 12 V-40 W/50 W	
	Tail/stoplight	Tail/Stop. 12 V- 7 W/23 W	
	Turn Signal light	Front/Rear 12 V-25 W/25 W	
	Speedometer Light	12 V- 3 W	
	Tachometer Light	12 V- 3 W	
	Neutral Indicator Light	12 V- 3 W	
	Turn Signal Indicator Light	12 V- 3 W	
	High Beam Indicator Light	12 V- 3 W	

## B. Service Data

### 4. ENGINE

mm (in.)

Item	Standard value	Serviceable limit
Inlet cam height	34.93~34.97 (1.3742~1.3768)	35.85 (1.4075)
Exhaust cam height	34.53~34.57 (1.3595~1.3610)	34.45 (1.3563)
Runout	—	0.1 (0.004)

Item	Standard value	Serviceable limit
Cylinder bore	56~56.01 (2.204~2.205)	56.1 (2.208)

Item	Standard value	Serviceable limit
Piston dia.	55.99~55.97 (2.204~2.203)	55.85 (2.198)
Piston pinhole	—	15.08 (0.593)

Item	Standard value	Serviceable limit
Piston ring end gap	0.15~0.35 (0.005~0.013)	0.7 (0.027)

Item	Standard value	Serviceable limit
Piston ring side clearance		
Top ring	0.040~0.075 (0.0015~0.0029)	0.18 (0.007)
Second ring	0.025~0.06 (0.0009~0.0023)	0.15 (0.005)
Oil ring	0.020~0.055 (0.0007~0.0021)	0.15 (0.005)

Item	Standard value	Serviceable limit
Ring groove clearance	15.002~15.008 (0.59063~0.59087)	Replace if over 15.080 (0.5937)

	Standard value	Serviceable limit
Valve stem clearance	Inlet 0.010~0.035 (0.00039~0.00137)	0.080 (0.0031)
	Exhaust 0.030~0.050 (0.0011~0.0019)	0.10 (0.0039)
Valve stem diameter	Inlet 5.450~5.465 (0.2145~0.2150)	
	Exhaust 5.430~5.445 (0.2137~0.2142)	
Valve face runout	—	0.05 (0.009)

mm (in.)

Item	Standard value	Serviceable limit
Cylinder head flatness	—	0.3 (0.011)

Item	Standard value	Serviceable limit
Valve spring free length	Outer 40.4 (1.59)	39 (1.53)
	Inner 35.7 (1.40)	34.5 (1.35)
Loading (reference)	Outer 27.9 mm/45.6~50.6 kg (1.0 in/ 100.54~111.57 lbs-ft)	
	Inner 23.2 mm/19.1~21.1 kg (0.9 in/ 421.15~464.35 lbs-ft)	
Clutch plate warp	—	0.3 (0.011)

Item	Standard value	Serviceable limit
Oil pump		
Inner and outer rotor clearance	—	0.35 (0.013)
Outer rotor and body clearance	—	0.35 (0.013)

Item	Standard value	Serviceable limit
Friction disc thickness	3.3 (0.13)	3.0 (0.11)

	Standard value	Serviceable limit
Clutch spring free length	31.9 (1.25)	30.5 (1.20)
Spring strength	31.4~33 kg at 23 mm (227.84~238.6) at 0.90 in	

Item	Standard value	Serviceable limit
Gear shift drum O.D.	39.975~39.95 (1.5738~1.5728)	39.9 (1.5709)
Shift fork I.D.	40.00~40.025 (1.5748~1.5757)	40.075 (1.5797)

Item	Standard value	Serviceable limit
Gear shift fork		
Center	5.93~6.00 (0.233~0.236)	5.60 (0.220)
Right & left	4.93~5.0 (0.194~0.197)	4.60 (0.181)

Item	Standard value	Serviceable limit
Crankshaft journal clearance	0.020~0.046 (0.00079~0.00181)	0.090 (0.0031)
Runout	—	0.05 (0.0019)
Journal and taper	—	0.05 (0.0019)





Item	Standard value	Serviceable limit
Connecting rod large end clearance	0.02~0.046 (0.00079~0.00181)	0.08(0.0031)

mm (in.)

Item	Standard value	Serviceable limit
Connecting rod side clearance	0.12~0.27 (0.0047~0.0106)	0.35 (0.0138)

Item	Standard value	Serviceable limit
Connecting rod small end clearance	15.016~15.034 (0.5911~0.5918)	15.07 (0.5930)

Item	Standard value	Serviceable limit
1st, 2nd, 3rd gears backlash	0.044~0.133 (0.0017~0.0051)	0.2 (0.0078)
4th and 5th gears backlash	0.046~0.140 (0.0018~0.0055)	0.2 (0.0078)

## 5. CHASSIS

Wheel	Standard value	Serviceable limit
Rim wobble	0.5(0.020)	2.0(0.08)
Wheel runout	0.5(0.020)	2.0(0.08)

Wheel bearing	Standard value	Serviceable limit
Front wheel bearing axial direction, TIR	0.07(0.028)	0.1(0.004)
Front wheel bearing radial direction, TIR	0.003 (0.00012)	0.05(0.002)

Front brake	Standard value	Serviceable limit
Caliper cylinder inside dia.	38.18~38.20 (1.5031~1.5039)	38.215(1.504)
Caliper piston outside dia.	38.115~38.48 (1.5006~1.5149)	38.105(1.500)

Front brake	Standard value	Serviceable limit
Master cylinder	14.0~14.043 (0.5511~0.5528)	14.055(0.533)
Piston	13.957~13.984 (0.5494~0.5505)	13.940(0.549)

Wheel	Standard value	Serviceable limit
Rim runout, TIR (vertical and side)	0.5(0.02)	2.0(0.08)

Item	Standard value	Serviceable limit
Disc trueness	—	0.3(0.011)
Caliper and piston clearance	—	0.11(0.004)
Master cylinder and piston clearance	—	0.11(0.004)

mm (in.)

Rear axle shaft	Standard value	Serviceable limit
Bent, TIR	0.01(0.0004)	0.2(0.009)

Brake lining	Standard value	Serviceable limit
Thickness	5.0(0.200)	2.0(0.080)

Brake Drum	Standard value	Serviceable limit
Inside dia.	179.8~180.0 (7.079~7.087)	181.0(7.125)

Item	Standard value	Serviceable limit
Axial, TIR	0.07(0.0028)	0.1(0.004)
Radial, TIR	0.003(0.00011)	0.05(0.002)

	Standard value	Serviceable limit
Front suspension spring I.D.	42(1.65)	
Free length	451.7(17.78)	425(16.73)
Tilt	5(0.02)	8(0.03)

Item	Standard value	Serviceable limit
Rear suspension free length	210.4(8.283)	205(8.070)

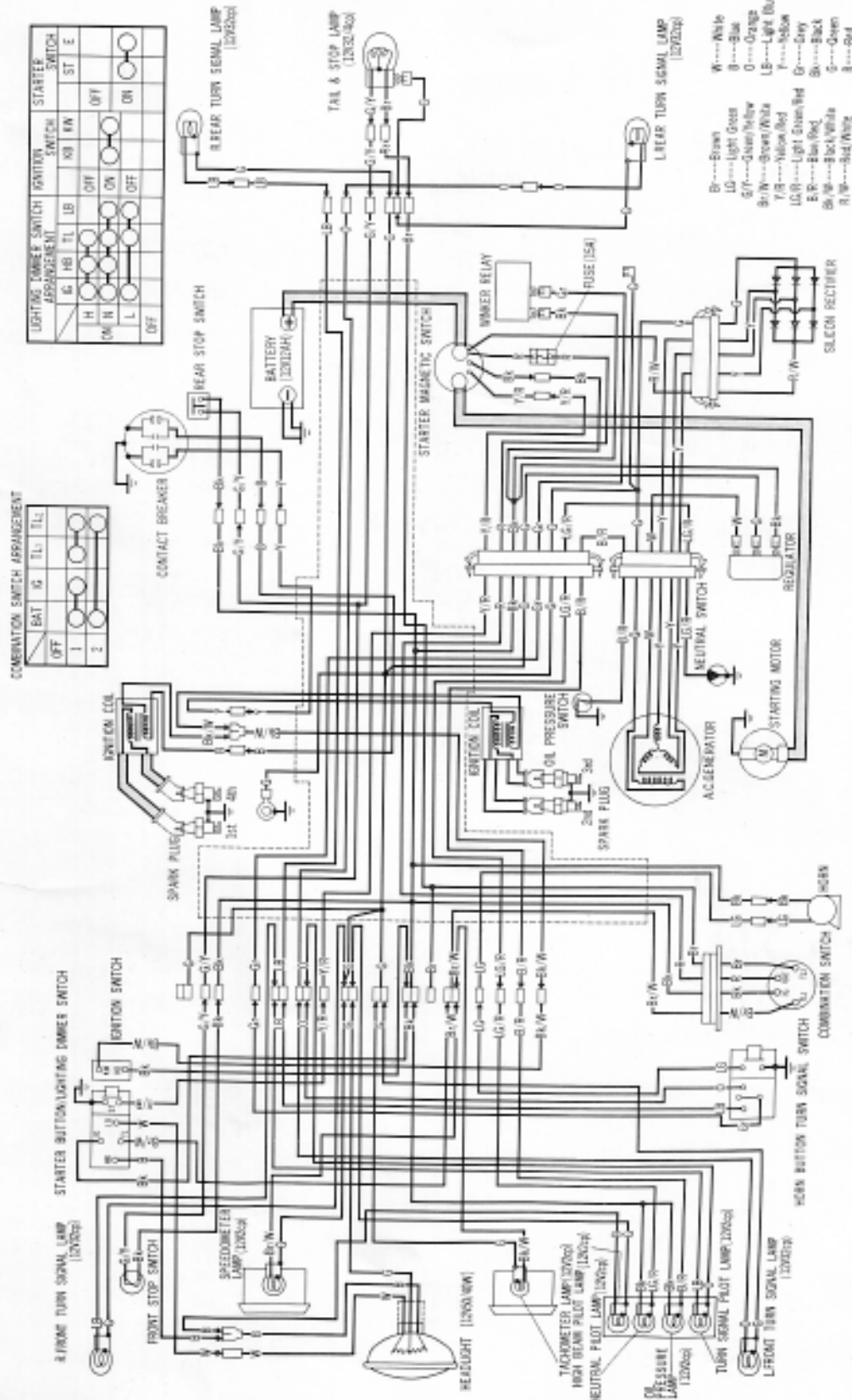
Item	Standard value	Serviceable limit
Clearance	0.1~0.3 (0.004~0.012)	0.5(0.02)
Rear fork bushing inside dia.	21.448~21.5 (0.844~0.846)	21.8(0.858)
Center collar outside dia.	21.427~21.46 (0.843~0.844)	21.4(0.842)

## 6. ELECTRICAL

Item	Standard value	Serviceable limit
Carbon brush length	12~31 mm (0.47~0.51 in)	5.5 mm (0.22 in)
Brush spring tension	0.5~0.5 kg (1.1~1.3 lbs)	0.4 kg (0.8 lbs)

# 10. WIRING DIAGRAM

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