Item	Standard value	Serviceable limit
Connecting rod large end clearance	0.02~0.048 (0.0008~0.00191)	0.08 (0.0031)

mm (in.)

Item	Standard value	Serviceable limit
Connecting rod side clearance	0.13~0.27 (0.0047~0.0106)	0.35 (0.0138)

Item	Standard value	Serviceable limit
Connecting rod small end clearance	15.006~15.024 (0.5911~0.5918)	15.07 (0.5930)

Item	Standard value	Serviceable limit
1st, 2nd, 3rd gears backlash	0.044~0.199 (0.0017~0.0061)	0.2 (0.0078)
4th and 5th gears backlash	0.046~0.140 (0.0018~0.0055)	0.2 (0.0078)

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.	38.18~38.23 (1.5031~1.5050)	38.215 (1.504)
Caliper piston outside dia.	38.115~38.43 (1.5006~1.5148)	38.105 (1.500)

Front brake	Standard value	Serviceable limit
Master cylinder	14.0~14.043 (0.5512~0.5529)	14.055 (0.553)
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 runness	—	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 (0.008)

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 (7.126)

Item	Standard value	Serviceable limit
Axial, TIR	0.07 (0.028)	0.1 (0.004)
Radial, TIR	0.028 (0.0011)	0.05 (0.002)

	Standard value	Serviceable limit
Front suspension spring I.D.	48 (1.89)	
Free length	407.7 (17.78)	425 (16.73)
Tilt	5 (0.02)	8 (0.08)

Item	Standard value	Serviceable limit
Rear suspension free length	213.4 (8.398)	205 (8.070)

Item	Standard value	Serviceable limit
Clearance	0.1~0.8 (0.004~0.012)	0.5 (0.02)
Rear fork bushing inside dia.	21.403~21.5 (0.843~0.846)	21.6 (0.850)
Center collar outside dia.	21.427~21.46 (0.843~0.844)	21.4 (0.842)

ELECTRICAL

Item	Standard value	Serviceable limit
Carbon brush length	12~32 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)

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B. Service Data (CB 550)

ENGINE

mm (in.)

Item	Standard value	Serviceable limit
Intake cam height	34.88~34.97 (1.3732~1.3768)	34.85 (1.3720)
Exhaust cam height	34.55~34.57 (1.3595~1.3603)	34.45 (1.3563)
Runout	—	0.1 (0.004)

Item	Standard value	Serviceable limit
Cylinder bore	58.30~58.51 (2.303~2.304)	58.6 (2.307)

Item	Standard value	Serviceable limit
Piston dia.	58.47~58.49 (2.302~2.30)	58.35 (2.302)
Piston pinhole	—	15.08 (0.593)

Item		Standard value	Serviceable limit
Piston ring end gap	Top	0.15~0.35 (0.006~0.013)	0.7 (0.027)
	2nd		
	oil	0.2~0.6 (0.01~0.026)	1.1 (0.043)

Piston ring Side clearance	Standard value	Serviceable limit
Top ring	0.040~0.075 (0.0015~0.0029)	0.18 (0.007)
Second ring	0.025~0.05 (0.0009~0.0028)	0.15 (0.005)
Oil ring	—	—

Item	Standard value	Serviceable limit
Ring groove clearance	15.002~15.008 (0.59068~0.59087)	Replace if over 15.080 (0.5937)

	Standard value	Serviceable limit
Valve stem clearance	Intake 0.020~0.045 (0.00079~0.00177)	0.080 (0.0031)
	Exhaust 0.050~0.080 (0.0011~0.0019)	0.10 (0.0039)
Valve stem diameter	Intake 5.450~5.465 (0.2145~0.2150)	
	Exhaust 5.430~5.445 (0.2137~0.2142)	
Valve face runout	—	0.05 (0.002)

mm (in.)

Item	Standard value	Serviceable limit
Cylinder head flatness	—	0.3 (0.012)

Item	Standard value		Serviceable limit
Valve spring free length	Outer	40.4 (1.59)	38 (1.50)
	Inner	35.7 (1.40)	34.5 (1.35)
Loading (reference)	Outer 27.9 mm/46.6~50.2 kg/ (1.1 in/ 193.54~111.07 lbs-ft) Inner 23.2 mm/19.1~21.1 kg (0.9 in/ 421.15~404.26 lbs-ft)		
Clutch plate warp	—		0.5 (0.011)

Oil pump	Standard value	Serviceable limit
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	2.8 (0.12)	2.8 (0.09)

	Standard value	Serviceable limit
Clutch spring free length	35.8 (1.45)	35.4 (1.39)
Spring strength	22.1~23.2 at 28 mm (227.54~238.6 at 1.10 in)	

Item	Standard value	Serviceable limit
Gear shift drum O.D.	39.975~39.95 (1.5738~1.5728)	39.9 (1.5708)
Shift fork I.D.	40.00~40.025 (1.5748~1.5757)	40.075 (1.5787)

Gear shift fork	Standard value	Serviceable limit
Center	5.93~6.00 (0.233~0.236)	5.80 (0.220)
Right & left	4.93~5.0 (0.194~0.197)	4.80 (0.189)

Item	Standard value	Serviceable limit
Crankcase/crankpin clearance	0.020~0.045 (0.00079~0.00181)	0.080 (0.0031)
Runout	—	0.05 (0.0019)
Journal and taper	—	0.05 (0.0019)

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Item	Standard value	Serviceable limit
Connecting rod large end clearance	0.02~0.048 (0.00079~0.00181)	0.05 (0.0081)

mm (in.)

Item	Standard value	Serviceable limit
Connecting rod side clearance	0.12~0.27 (0.0047~0.0105)	0.33 (0.0130)

Item	Standard value	Serviceable limit
Connecting rod small end clearance	15.013~15.034 (0.5911~0.5919)	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	0.043~0.140 (0.0013~0.0055)	0.2 (0.0078)

CHASSIS

Wheel	Standard value	Serviceable limit
Rim wobble	0.5 (0.02)	2.0 (0.08)
Wheel runout	0.5 (0.02)	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	0.005 (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 (0.5512~0.5528)	14.055 (0.553)
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 (0.008)

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

Brake Drum	Standard value	Serviceable limit
Inside dia.	179.0~180.0 (7.079~7.087)	181.0 (7.125)

Item	Standard value	Serviceable limit
Axial, TIR	0.07 (0.003)	0.1 (0.004)
Radial, TIR	0.028 (0.0011)	0.05 (0.002)

	Standard value	Serviceable limit
Front suspension spring I.D.	42 (1.65)	
Free length	451.7 (17.78)	438 (16.73)
Tilt	5 (0.20)	9 (0.35)

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.	21.443~21.5 (0.844~0.846)	21.8 (0.858)
Outer collar outside dia.	21.427~21.46 (0.843~0.844)	21.4 (0.842)

ELECTRICAL

Item	Standard value	Serviceable limit
Carbon brush length	13~14 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 (0.9 lbs)

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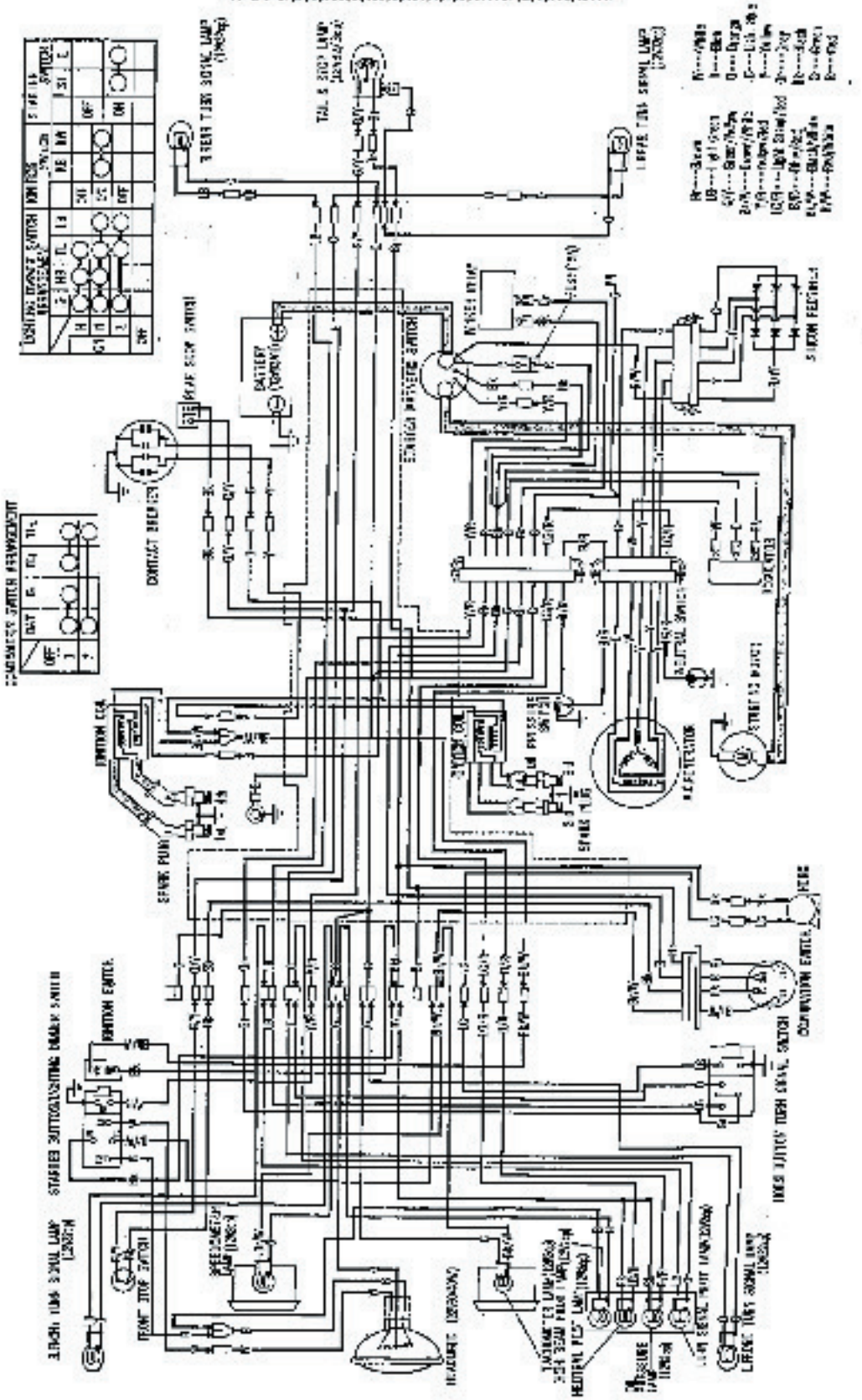
14. WIRING DIAGRAM



CB 600

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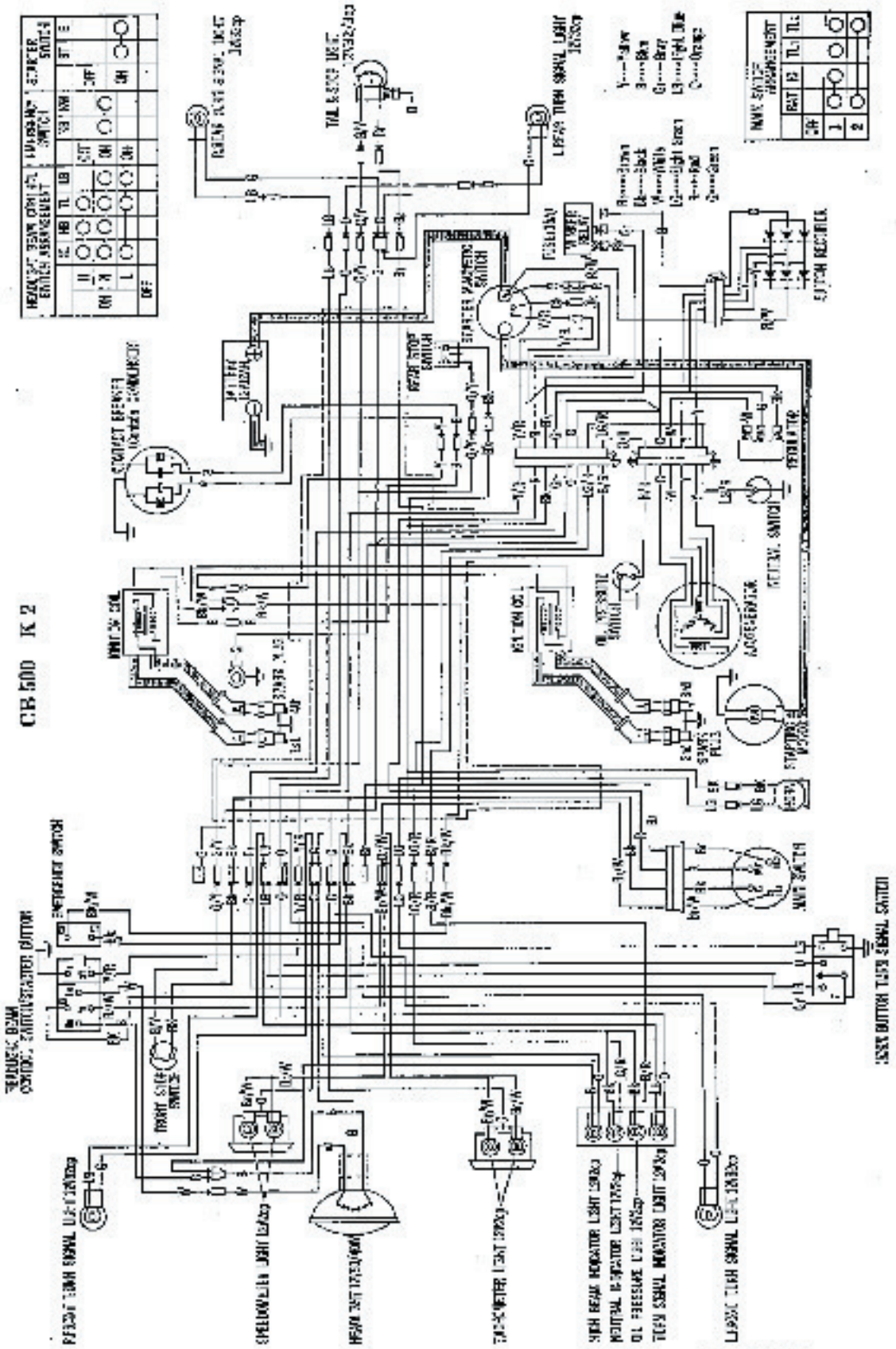

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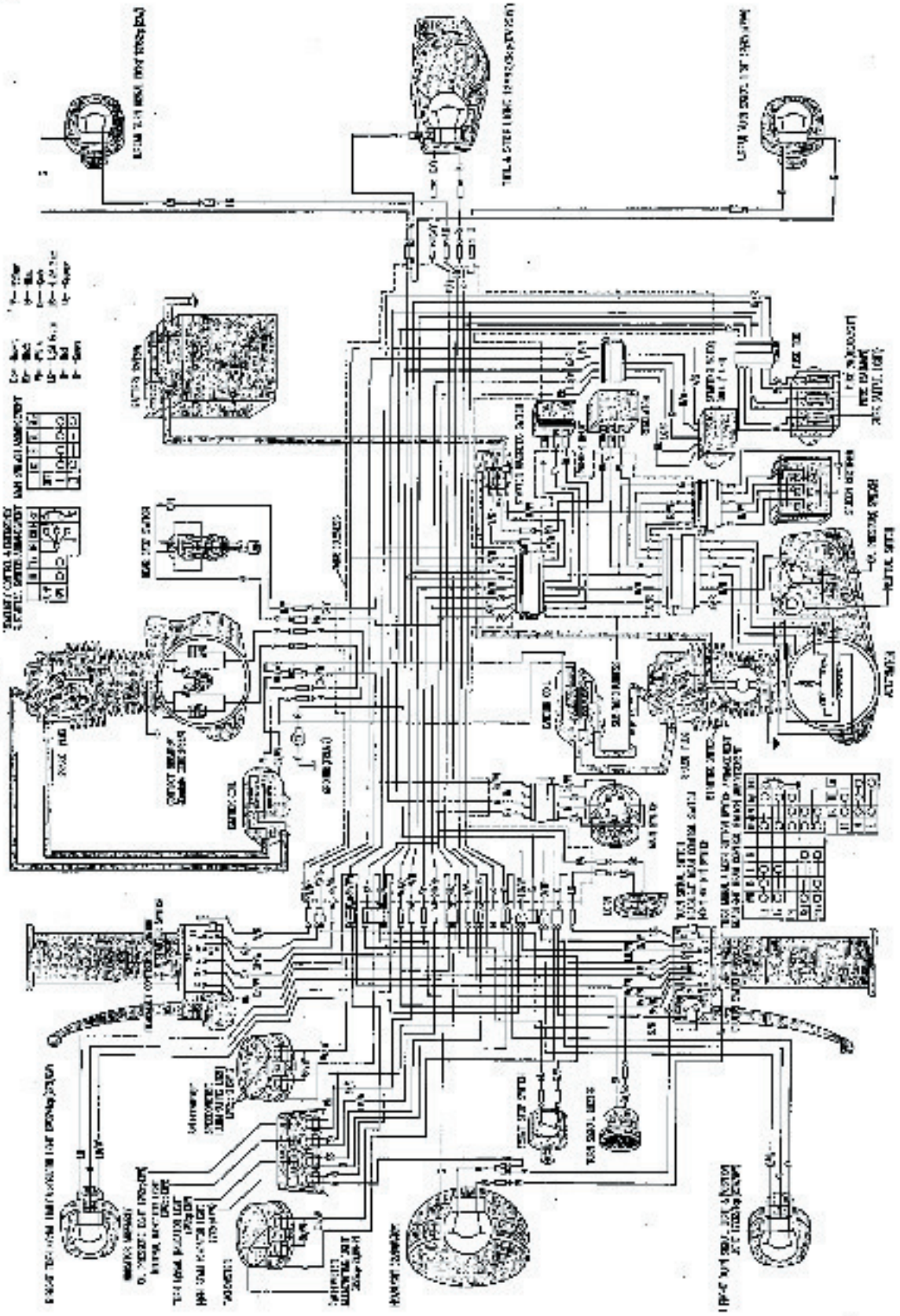

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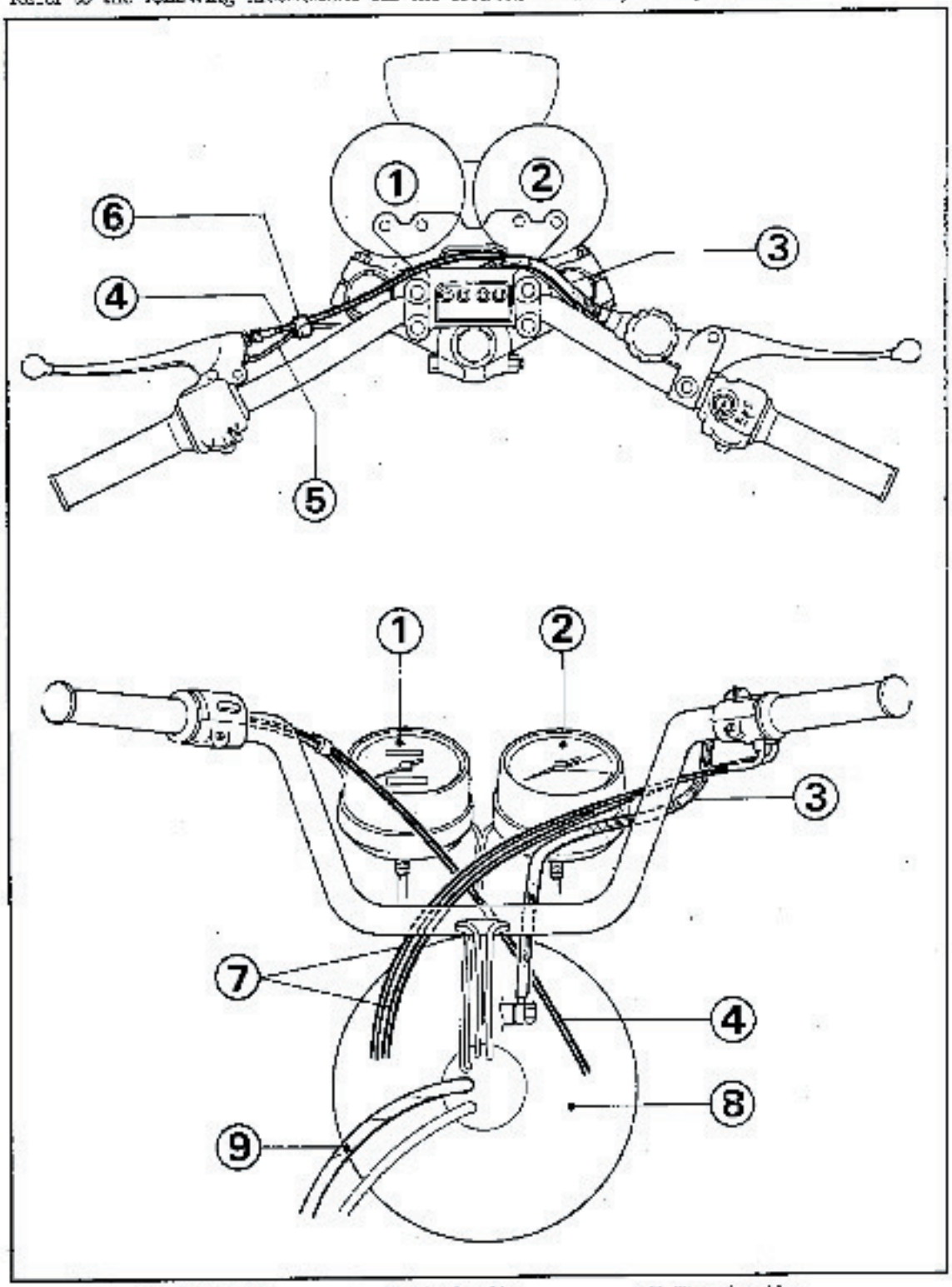
Wiring diagram of CB 550

Refer to the following illustrations for the location of wires, cables, and leads.



① Speedometer
② Tachometer
④ Front brake hose
⑤ Clutch cable
⑥ Clutch switch wire
⑦ Clip
⑦ Throttle cables
⑧ Headlight case
⑨ Wire harness

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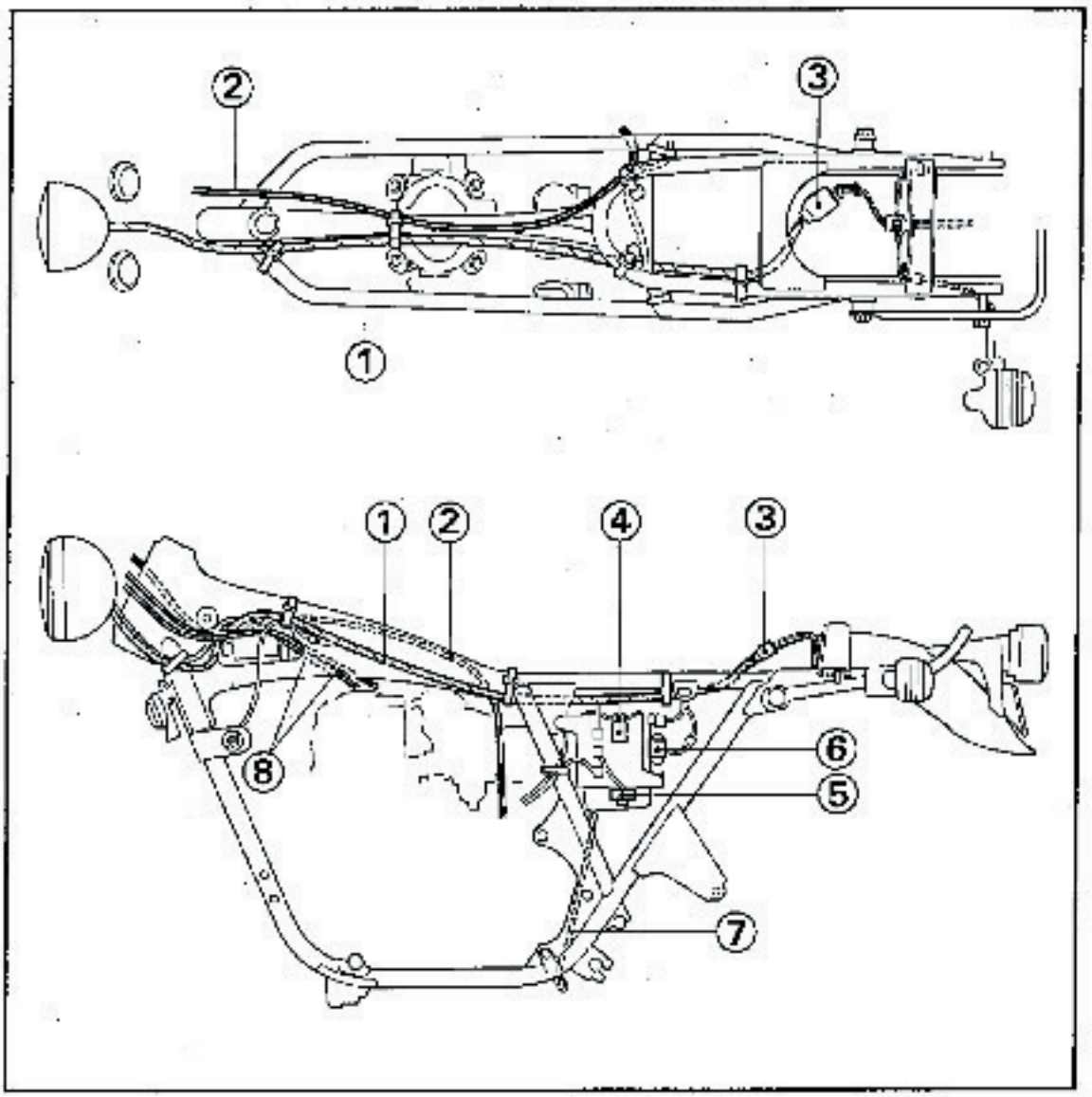

① Wire harness
② Clutch cable
③ Terminal cover
④ Starter magnetic switch
⑤ Silicon rectifier
⑥ fuse box
⑦ Air cleaner tube
⑧ Throttle cables

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15. SUPPLEMENT TO CB550K1

1. FUEL VALVE

The fuel valve is new for the revised model. The indication marks and the fuel valve positions were changed.

Inspection and cleaning

1. Place the fuel lever in the "OFF" position; disconnect the fuel tubes. Take the fuel tank out.
2. Drain the fuel tank thoroughly.
3. Loosen the fuel valve fixing nut and remove the fuel valve and fuel filter from the fuel tank.
4. Check the gasket for damage. Replace with a new one, if it is damaged.
5. Wash the fuel filter in solvent and dry with compressed air. Replace the filter with a new one if it is clogged.
6. Install the fuel filter to the fuel valve with the fixing nut. Install the gasket into the groove of the fixing nut.
7. Install the fuel valve to the fuel tank with the fixing nut.
8. Install the fuel tank in place on the frame. Connect the tubes and secure with tube clips.
9. Fill the tank with fuel. With the fuel valve lever in the "ON" position, check for leaks past the tube joints or connections.

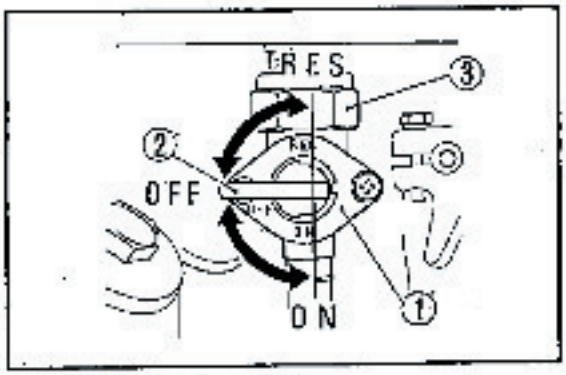

Fig. K1-1 ① Fuel valve
② Lever
③ Fuel valve fixing nut

Fig. K1-2 ① Fuel valve
② Fixing nut
③ Gasket
④ Fuel filter

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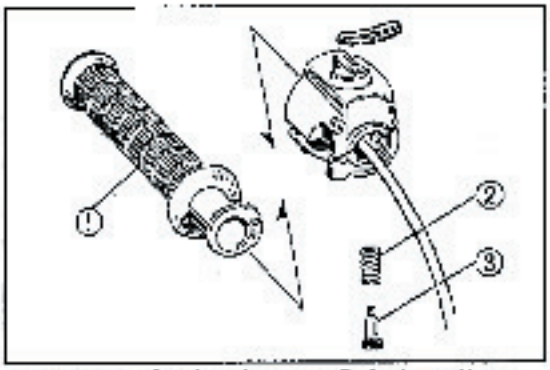

Fig. K1-3 ① Throttle grip ② Spring adjuster ③ Adjusting bolt

2. THROTTLE GRIP

The throttle grip adjuster, Fig. K1-3, was discontinued.

Fig. K1-4 ① Side stand bar ② Spring ③ Rubber pad ④ 6mm bolt ⑤ Side stand pivot bolt

3. SIDE STAND

The side stand was changed to a new type with a shock absorbing rubber pad. The side stand must be inspected periodically to determine that it is in good condition.

Inspection

1. Check the entire stand assembly (side stand bar, bracket and rubber pad) for installation, deformation or excessive damage.
2. Check the spring for damage or other defects.
3. Check the side stand for proper return operation:
   a. With the side stand applied, raise the stand off the ground by using the main stand.
   b. Attach a spring scale to the lower end of the stand and measure the force with which the stand is returned to its original position.
   c. The stand condition is correct if the measurement falls within 2~3kg (4.4~6.6lbs.).
   If the stand requires force exceeding the above limit, this may be due to neglected lubrication, overtightened side stand pivot bolt, worn stand bar or bracket, or excessive tension. Replace if necessary.
4. Check the rubber pad for deterioration or wear. When the rubber pad wear is so excessive it is worn to the wear line, replace it with a new one.

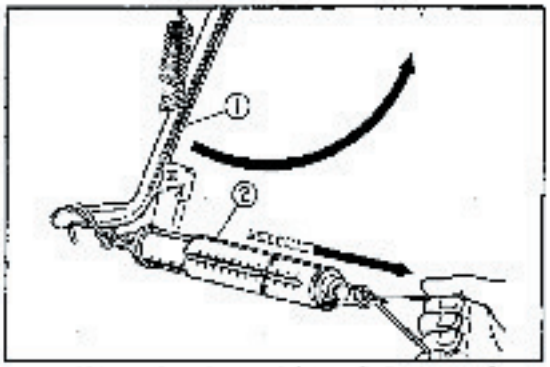

Fig. K1-5 ① Side stand bar ② Spring scale

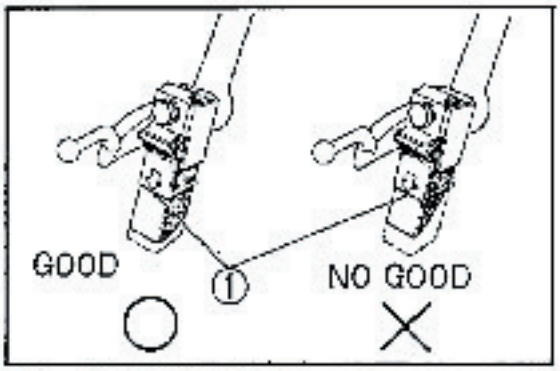

Fig. K1-6 ① Wear line

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