#### **14.ELECTRICAL** HONDA **CB750A BATTERY SERVICE** 14----8 14 - 1TROUBLESHOOTING 14 - 9STARTING SYSTEM 14 - 3IGNITION SYSTEM STARTING SYSTEM IGNITION SYSTEM 14 - 9DIAGRAM 14---3 DIAGRAM DISASSEMBLY/ 14 - 3INSPECTION 14 - 10ASSEMBLY 14 - 5CHARGING SYSTEM STARTER MOTOR 14-11 DISASSEMBLY CHARGING SYSTEM DIAGRAM 14 - 514 - 12INSPECTION 14 - 5CHARGING TEST ALL OTHER ELECTRICAL PARTS INSPECTION 14-6 **INSPECTION** 14 - 15

## • TROUBLESHOOTING

#### (IGNITION SYSTEM)

Engine Cranks but Will Not Start:

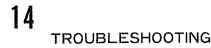
- Engine stop switch OFF
- No spark at plugs
- Defective contact breaker
- A.C. generator faulty

No Spark at Plugs:

- Engine stop switch OFF
- Poorly connected, broken or shorted wires
- Defective ignition switch
- Defective ignition coil
- Defective condenser
- Defective A.C. generator
- Defective contact breaker

Engine Starts but Runs Poorly:

- Ignition primary circuit
  - Defective ignition coil
  - Loose or bare wire
  - · Intermittent short-circuit in a switch
- Secondary circuit
  - Defective plug
  - Defective high tension cord
- Ignition timing
  - · Defective contact breaker
  - Defective condenser



#### (CHARGING SYSTEM)

#### No Power – Key Turned On:

Dead battery

- Battery not charged
- Battery electrolyte low
- Battery run down

Charging system failure
 Disconnected battery cable
 Main fuse burned out
 Defective ignition switch

Low Power - Key Turned On:

- Weak battery
- Low battery electrolyte level
- Battery run down

Charging system failure
 Loose battery connection

Low Power - Engine Running:

Battery undercharged

- Low battery electrolyte level
- One or more dead cells
- Charging system failure

#### (STARTING SYSTEM)

Starter Motor Will Not Turn:

- Dead battery
- Defective ignition switch
- Defective starter switch
- Defective neutral switch
- Defective starter magnetic switch
- Loose or disconnected wire or cable
- Defective clutch switch

Starter Motor Turns Engine Slowly:

- Low battery
- Excessive resistance in circuit

## Intermittent Power:

Loose battery connection Loose charging system connection Loose starting system connection Loose connection or short circuit in ignition system Loose connection or short circuit in lighting system

Charging System Failure:

Loose, broken, or shorted wire or connection Defective voltage regulator Defective silicon rectifier Defective A.C. generator

Starter Motor Turns, But Engine Does Not Turn:

- Defective starter clutch
- Defective starter motor gears
- Defective starter motor or idle gear

Starter Motor and Engine Turn, But Engine Does Not Start:

- Defective ignition system
- Engine problems

14-2

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## HONDA CB750A

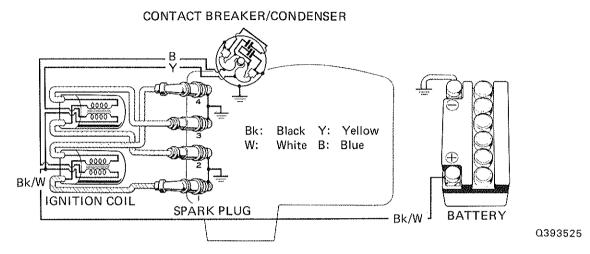


**IGNITION SYSTEM** 

Δ

## IGNITION SYSTEM

IGNITION SYSTEM DIAGRAM



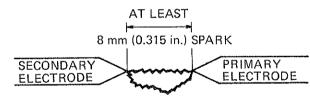
SECONDARY

CIRCUIT

## INSPECTION

#### IGNITION COIL INSPECTION

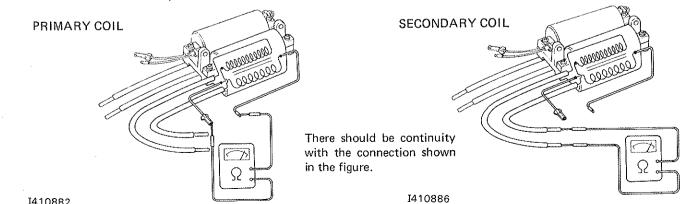
- TESTING WITH SERVICE TESTER 3-POINT SPARK TEST
- The coil is satisfactory if sparks jump across a gap greater than 8 mm.
- Perform this test by placing the coil on an insulated surface.
- Keep the aligator clips at least 50 mm (2 in.) away from each other.
- Follow the instructions furnished with the tester.



#### CONTINUITY TEST

· Remove the spark plug cap before making a continuity test.

There should be continuity between coils.



I410882

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PRIMARY

BATTERY

I410884

CIRCUIT

SERVICE TESTER

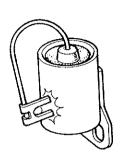
14 IGNITION SYSTEM

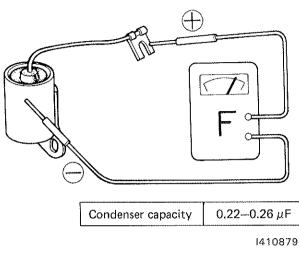
## ELECTRICAL



#### • CONDENSER CAPACITY CHECK

Use a radio tester to check. Before making a check, short out the stored energy by attaching the center lead (+) to the case.

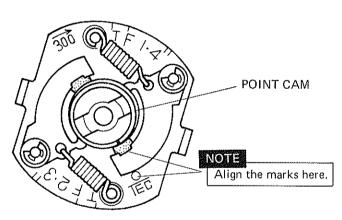




1410881

#### SPARK ADVANCER

 If the advancer does not operate smoothly, apply oil to the sliding surface of the advancer.



Z410630

#### SPARK ADVANCER INSPECTION -DYNAMIC TEST

#### NOTE

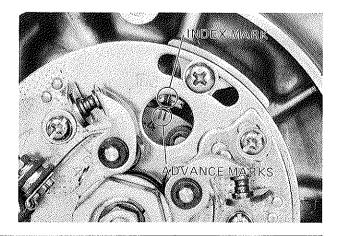
Before performing this test, check and adjust the ignition timing. Refer to page 4-8.

With the engine running over 2,500 rpm, check that the index mark is within the full advance marks. If the index mark is out of the full advance marks, check the operation of the spark advancer. Repair or replace as required.

SPARK PLUG

4-4

- For inspection and adjustment - - page 4-6.
- CONTACT BREAKER
- For inspection and adjustment - - page 4-7.



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CHARGING SYSTEM

Make the connections as shown and raise the engine

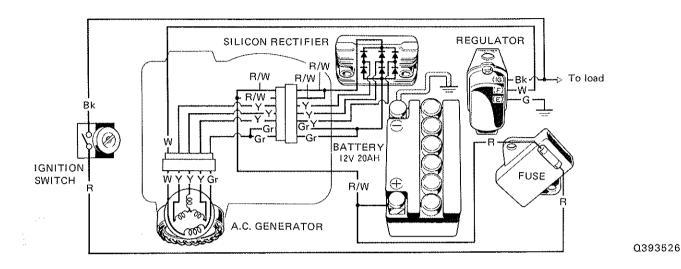
speed gradually in order to permit the needle of each

meter to swing gently.

1 /

## CHARGING SYSTEM

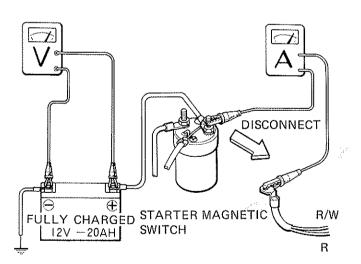
CHARGING SYSTEM DIAGRAM



## CHARGING TEST

Perform the following tests after warming up the engine:

- Check the specific gravity of battery electrolyte. Specific Gravity (fully charged): 1.260-1.280 at 20° (68°F)
- Connect a voltmeter and an ammeter as shown; set the dimmer switch to HIGH.
- Install a tachometer.



1410904

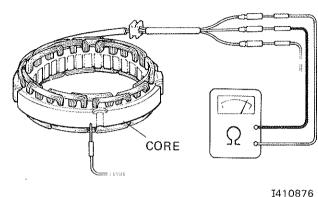
Charging rpm	3,0	000 rpm	8,000 rpm		
Charging (ph)	Charging current	Charging current Battery terminal voltage		Battery terminal voltage	
1,450 rpm	8.7A max.	14.5∨	13.2A max.	14.5V	

Run the engine and note the exact voltage indicated on the voltmeter. Readings in excess of specifications indicate that the generator and battery should be inspected individually.

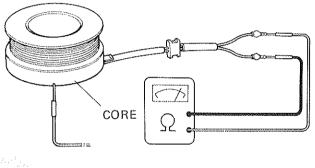




## STATOR COIL

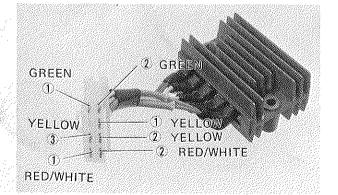


#### FIELD COIL



1410883

## SILICON RECTIFIER



#### NOTÈ

Perform this test on an insulated surface or non-conductive material.

HONDA

**CB750A** 

CONTINUITY TEST:

There should be continuity between the three lead wires.

INSULATION TEST:

· There should be no continuity between each wire and the stator core.

## NOTE

Perform this test on an insulated surface or non-conductive material.

#### CONTINUITY TEST:

- · There should be continuity between the two lead wires.
- The coil is open if there is no continuity.

#### INSULATION TEST:

- No continuity should exist between the field core and each of the terminals.
- The coil is short circuited if there is continuity.

#### NOTE

- Use an ohm meter.
- Do not apply high voltages as this will ruin the diodes.

Replace the rectifier if any one of the following tests proves unsatisfactory.

Continuity should exist between: Green (1) and Green (2) leads Red/White (1) and Red/White (2) leads:

Continuity should exist in only one direction between: One of the Green leads (1) and (2) and one of the Yellow leads (1), (2) and (3).

One of the Red/White leads (1) and (2) and one of the Yellow leads (1), (2) and (3).

#### NOTE

Some resistance will be indicated if there is continuity.

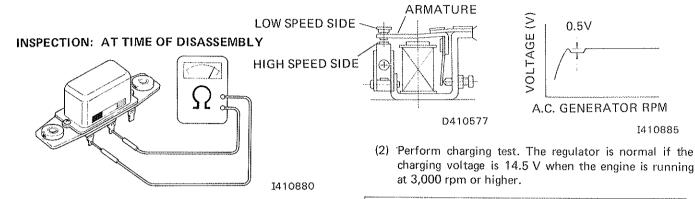


## CHARGING SYSTEM

#### VOLTAGE REGULATOR

HONDA CB750A

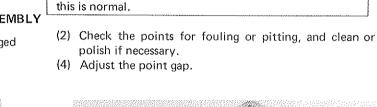
The regulator controls the output of the A.C. generator to prevent damaging high voltage and high current from being attained within the system.

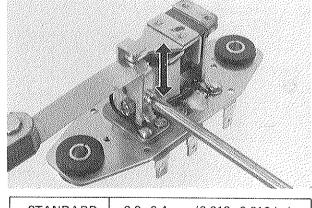


(1) There should be continuity between "F" terminal (white) and "I" terminal (black).

#### INSPECTION AND ADJUSTMENT: AT TIME OF ASSEMBLY

- (1) Perform the charging test. If the battery is not charged fully, proceed to the steps (2) and (5).
- (3) Adjust the core gap.



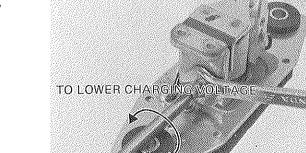


Charging voltage may vary about 0.5V when the

armature is pulled down from LOW to HIGH side, but

STANDARD 0.3-0.4 mm (0.012-0.016 in.)

TO RAISE CHARGING VOLTAGE



(5) Charging voltage:

**STANDARD** 

The regulator is normal if the charging voltage is 14.5 V when the engine is running at 3,000 rpm or higher.

0.6-1.0 mm (0.024-0.040 in.)

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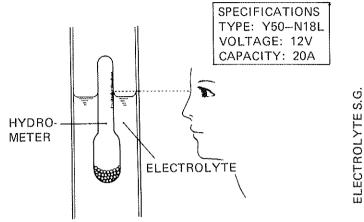


#### BATTERY SERVICE

1 /

#### SPECIFIC GRAVITY AND TEMPERATURE

CHARGING SYSTEM



 Specific gravity changes 0.007 for every 10°C (18°F) of electrolyte temperature.

#### NOTE

Replace the battery if sulfation is evident. Replace the battery if pastes have settled to the bottom in each cell.

## CHARGING BATTERY

Hooking-up instruction	Connect the positive (+) terminal of charger to the positive (+) terminal of the battery. Connect the negative () terminal of charger to the negative () terminal of the battery.			
Charging current 2.0A				
State of charge of battery	Continue charging until S.G. (Speci- fic Gravity) of the battery electrolyte is 1.260 to 1.280 (20°C/68°F).			
Charging time	Continue charging until S.G. (Speci- fic Gravity) of the battery electrolyte			

#### WARNING

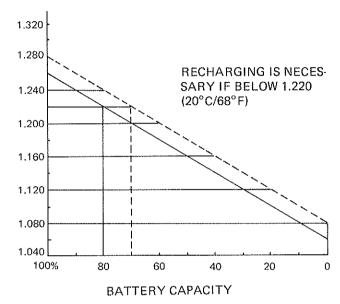
- Remove the caps when charging.
- Do not bring an open flame near the battery as explosive hydrogen gas is formed during charging.
- Avoid "QUICK CHARGING."
- Do not continue charging when the electrolyte temperature exceeds 45°C.

After charging, wash the battery with water and coat the terminals with grease.

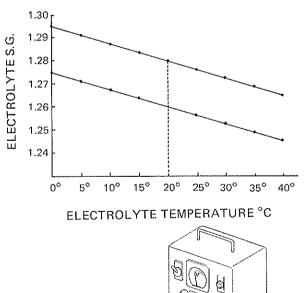
## SPECIFIC GRAVITY (FULLY CHARGED): 1.260-1.280 at 20°C (68°F)

The battery should be recharged if the specific gravity falls below 1.220 at  $20^{\circ}$ C (68° F).

S.G. AND CAPACITY



#### ELECTROLYTE TEMPERATURE VS SPECIFIC GRAVITY



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14-8



## ELECTRICAL

## STARTING SYSTEM

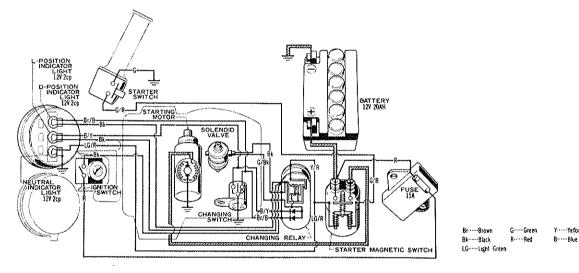
14

## **STARTING SYSTEM**

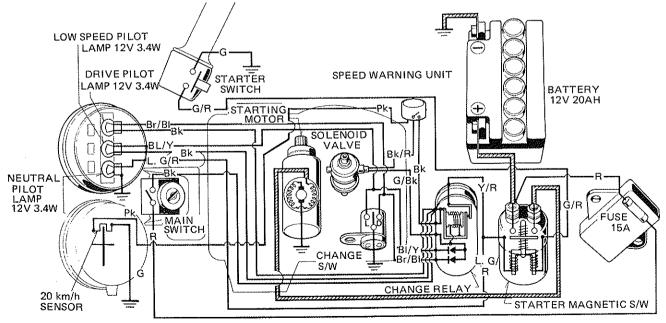
Hatoa Fortago	12V 0.6KW
isocod ou put	
Rated operating time:	30 sec. (continuous)

	On-load	No-load	When locked
Voltage (V)	11	8.5	5
Amperage (A)	35	120	280
(kg·m) Torque (lbft.)		0.12 (0.795)	0.32 (1.880)
Speed (rpm)	11,00022,000	3,200	

## STARTING SYSTEM DIAGRAM ('76 model)



#### ('77 and '78 models)



#### SAFETY CIRCUIT

The change switch prevents the starter from being turned when the transmission is in gear even if the starter switch is turned on.

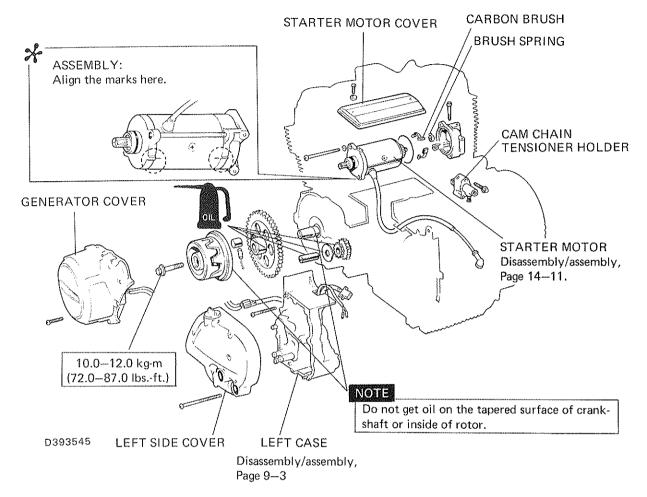
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Y-----Yellow

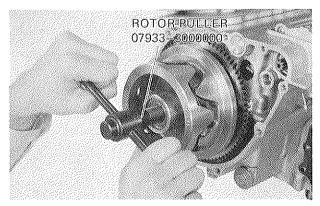




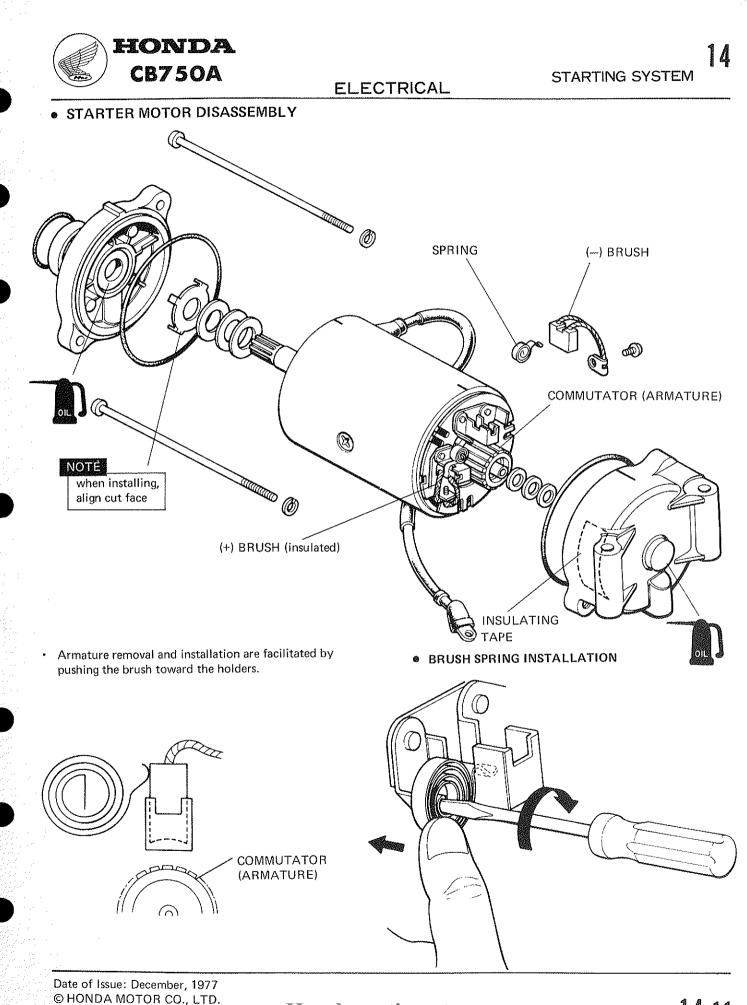




ROTOR DISASSEMBLY



Before assembling, clean the crankshaft tapper and inside surface of the rotor.





## STARTING SYSTEM

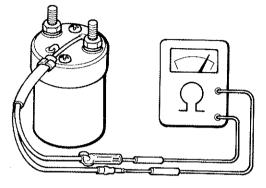
## INSPECTION

14

## • STARTER MAGNETIC SWITCH

## CONTINUITY TEST:

There should be continuity between two lead wires.



(Shows  $3\Omega$ )

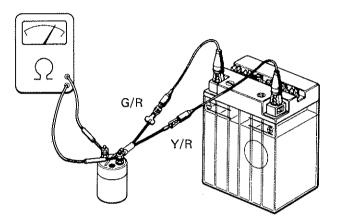
1410873

No continuity indicates an open circuit in the stator coil.

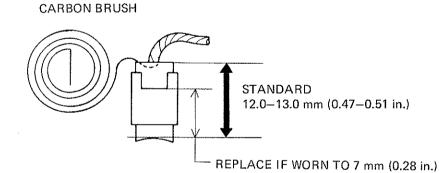
## SWITCH TEST:

ELECTRICAL

The switch is satisfactory when there is continuity between the switch lead wires.



## CARBON BRUSH/SPRING



#### BRUSH LENGTH

STANDARD	SERVICE LIMIT
12—13 mm	7.0 mm
(0.47—0.51 in.)	(0.28 in.)

#### SPRING TENSION

STANDARD	SERVICE LIMIT
560–680 g	400 g
(19.7–24.0 oz)	(14.0 oz)

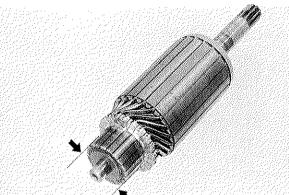


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## • COMMUTATOR CLEANING

 Clean the commutator surface of dirt and metal particles and polish with an emery cloth (#500-600), if necessary. Blow with compressed air after cleaning.

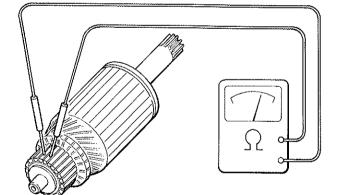
#### • COMMUTATOR O.D.



STANDARD	SERVICE LIMIT
28.0 mm (1.10 in.)	27.0 mm (1.06 in.)

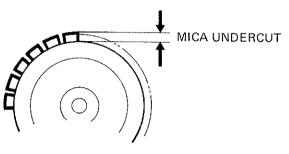
#### ARMATURE COIL CONTINUITY TEST

There should be continuity between any two segments.



#### STATOR COIL CONTINUITY TEST

There should be continuity between starter cord and positive (+) terminal.

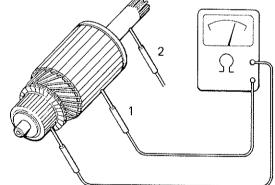


1410874

STANDARD	SERVICE LIMIT
0.5–0.8 mm	0.2 mm
(0.020–0.031 in.)	(0.008 in.)

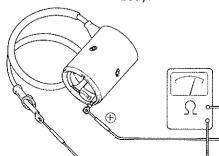
#### ARMATURE COLL INSULATION TEST

There should be no continuity between commutator and core.



#### STATOR COIL INSULATION TEST

There should be no continuity between starter cord and body.



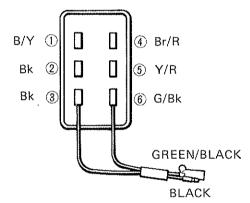




CHANGE SWITCH INSPECTION

# Br/R B/Y

## CHANGE RELAY INSPECTION



CONTINUITY TEST: "D" or "2" POSITION

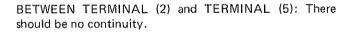
There should be continuity between brown/red wire and ground.

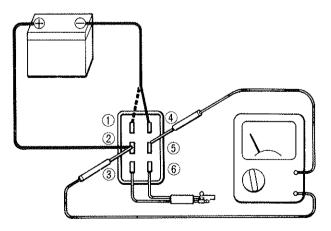
INSULATION TEST: "L" or "1" POSITION

There should be no continuity between blue/yellow wire and ground.

#### CONTINUITY TEST

- BETWEEN TERMINAL (2) and TERMINAL (5): Continuity should exist. If there is no continuity, this indicates that the relay points are poorly contacted.
- BETWEEN TERMINAL (2) and TERMINAL (6): Continuity should exist. If there is no continuity, the relay coil is open.
- BETWEEN TERMINAL (2) and TERMINAL (1), and TERMINAL (2) and TERMINAL (4): Continuity should exist in only one direction





#### WARNING

Make sure of proper battery polarity when making connection, as shown.

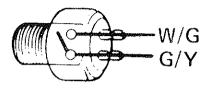


## ALL OTHER ELECTRICAL PARTS 14 INSPECTION

## **●**ALL OTHER ELECTRICAL PARTS INSPECTION

## FRONT BRAKE STOPLIGHT SWITCH

Check the front brake stoplight switch for continuity with the front brake applied.



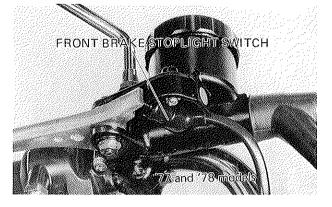
'76 model

#### NOTE

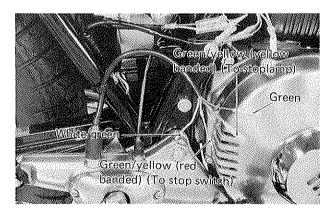
Bleed the front brake system when the front brake stoplight switch is replaced. ('76 model)

#### REAR BRAKE STOPLIGHT SWITCH

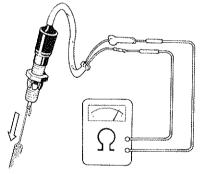
Check the rear brake stoplight switch for continuity with the rear brake applied.



PARKING BRAKE SWITCH



The switch is normal if there is continuity between the green/yellow (yellow banded) and green/yellow (red banded) wires with the brake applied. There should be continuity between the green and white/green wires when the brake is released.



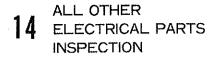
Adjust the rear brake stoplight switch after the rear brake pedal free play has been adjusted.

• Turn the adjusting nut so that the rear brake stoplight comes on just before the brake takes hold.

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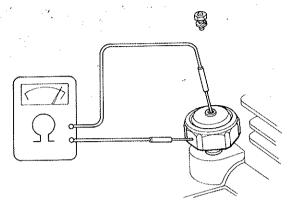
14-15





OIL PRESSURE WARNING SWITCH

SILICON RECTIFIER (PARKING BRAKE SWITCH)



1410878

Check for continuity with the engine running. The switch is normal if there exists no continuity. If there is continuity, check the switch and oil circuits.

s -		
		$\ominus$
	L P	/
	<b>A</b> +	

The rectifier is correct if there is continuity only in the arrow direction. Replace the rectifier if there is continuity in reverse direction.

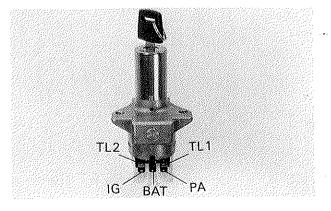
#### HORN

Check for continuity between the horn cord terminals or check to make sure the horn will sound when it is connected to a fully charged 12V battery.

## IGNITION SWITCH

There should be continuity between circuits " $\circ - \circ$ ".

	BAT	IG	TL1	TL2	PA
LOCK					
OFF					
RUN	0	0	0	0	
PA	0				0
Color	Red	Black		Black/ White	Black



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## ALL OTHER ELECTRICAL PARTS 14 INSPECTION

#### HANDLEBAR SWITCHES

There should be continuity between circuits "O-O".

## **ENGINE STOP · STARTER SWITCHES**

('76 Model)

	КВ	КW		IG	HL	.∂ST	E
OFF			FREE				
RUN	0	0					
OFF			PUSH			0	0
Color	Black	Black/ White	Color	Black	Black/ Red	Green/ Red	Green

STARTER • ENGINE STOP SWITCH ('77 and '78 Models)

	IG	КW		١G	HL1	ST	E
OFF			FRFF	·1			
RUN	<u> </u>	0	FNEL				
OFF			PUSH			<u> </u>	0
Color	Black	Black/ White	Color	Black	Black/ Red	Green/ Red	Green

#### TURN SIGNAL · HORN · DIMMER SWITCHES ('76 Model)

( ) 0 100	Jucij				 			
[	W	В	L	R	TL1	PL	PR	HO
L2	<u>0</u>	-0-	0		<u> </u>		$-\circ$	
L1	0		-0		0		-0	ပံ
N					0	O	0	ļγΓ
R1	0			-0	0	0		<u> </u>
R2	0—	0		-0	0	0		
Color	Green	Brown/ Blue Yellow tube	Orange	Light Blue	Black/ White	Orange White	Light Blue/ White	Light Green

	HL	Hi	Lo
Hi	0	-0	
(N)	0	O	0
Lo	0		0
Color	Black/ Yellow	Blue	White

	NOTI						
NS2	Hand	llebar	swit	tch	wire	s, co	uplers
	and	conne	ector	rs	are	conr	nected
	and	clamp	ed	bel	nind	the	head-
	light						

#### TURN SIGNAL · HORN · DIMMER SWITCHES ('77 and '78 Models)

Hi

-0

 $\circ$ 

Blue

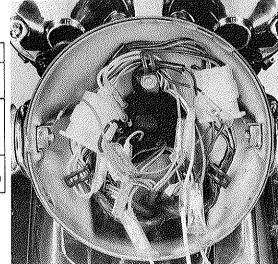
Lo

-0

-0

White

	W	В	L	R		TL1	PL.	PR	HO
L2								_0	
L.1			-0	1		<u> </u>		-0	്പ
N			1			0	-0	<u> </u>	ρΓ
R1				$\vdash \circ$		$\ \ \frown$	-0		
R2		$\vdash \circ \dashv$	]	-0		0			I
Color	Green	Brown/ Blue	Orange	Light Blue		Black/ White	Orange/ White	Light Blue/ White	Light Green





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HL2

0-

0-

0--

Black/

Yellow

Hi

(N)

Lo

Color





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CB750A	15.	FRONT WHEEL SUSPENSION/I STEERING SYS	BRAKE /
SERVICE	******	<b> FRONT DISC BRAKE</b>	15-8
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## **SERVICE INFORMATION**

## **SPECIFICATIONS**

			Unit: mm (in.)
ltem		Standard	Service Limit
Wheel axle runout		0-0.050 (0.002)	0.2 (0.008)
Wheel rim runout	Axial	0-1.0 (0-0.039)	2.0 (0.08)
	Radial	0—1.0 (0—0.039)	2.0 (0.08)
Front brake disc face runou	t	0-0.15 (0-0.006)	0.3 (0.012)
Front brake disc thickness		7.0 (0.276)	6.0 (0.236)
Front brake master cylinder I.D.		14.000-14.043 (0.5512-0.5529)	14.055 (0.5533)
Front brake master cylinder piston O.D.		13.95713.984 (0.54950.5506)	13.945 (0.5490)
Front brake caliper cylinder I.D.		42.85-42.90 (1.6870-1.6889)	42.915 (1.6896)
Front brake caliper cylinder	piston O.D.	42.82 (1.6858)	42.805 (1.6852)
Front fork tube O.D.		34.925-34.950 (1.375-1.376)	34.900 (1.374)
Front fork slider I.D.		35.065-35.104 (1.381-1.382)	35.250 (1.388)
Front fork spring free length	١	504.3 (19.85)	495 (19.5)

## TORQUE VALUES

Listed below are the special fastener torque limits. These fasteners except the standard parts should be tightened to the torques shown below:

2.7-3.3 kg-m (19.5-23.9 lbs.-ft.)

	shown below.
1	Disc plate fixing nuts
	Wheel spokes
	Front axle nut
	Front caliper set bolts
ł	Bleeder valve
	Front axle holder nuts
	Steering stem nut
	Front fork top bridge nuts (7 mm)
	Front fork bottom bridge nuts
	Handlebar upper holder bolts

 $\begin{array}{l} 0.3-0.4 \ \text{kg-m} \ (2.2-2.9 \ \text{lbs.-ft.}) \\ 5.5-6.5 \ \text{kg-m} \ (39.8-47.0 \ \text{lbs.-ft.}) \\ 3.0-4.0 \ \text{kg-m} \ (21.7-28.9 \ \text{lbs.-ft.}) \\ 0.7-0.9 \ \text{kg-m} \ (5.1-6.5 \ \text{lbs.-ft.}) \\ 1.8-2.5 \ \text{kg-m} \ (13.0-18.1 \ \text{lbs.-ft.}) \\ 8.0-12.0 \ \text{kg-m} \ (57.9-86.8 \ \text{lbs.-ft.}) \\ 0.9-1.3 \ \text{kg-m} \ (6.5-9.4 \ \text{lbs.-ft.}) \\ 3.0-4.0 \ \text{kg-m} \ (21.7-28.9 \ \text{lbs.-ft.}) \\ 1.8-2.5 \ \text{kg-m} \ (13.0-18.1 \ \text{lbs.-ft.}) \\ 1.8-2.5 \ \text{kg-m} \ (13.0-18.1 \ \text{lbs.-ft.}) \end{array}$ 



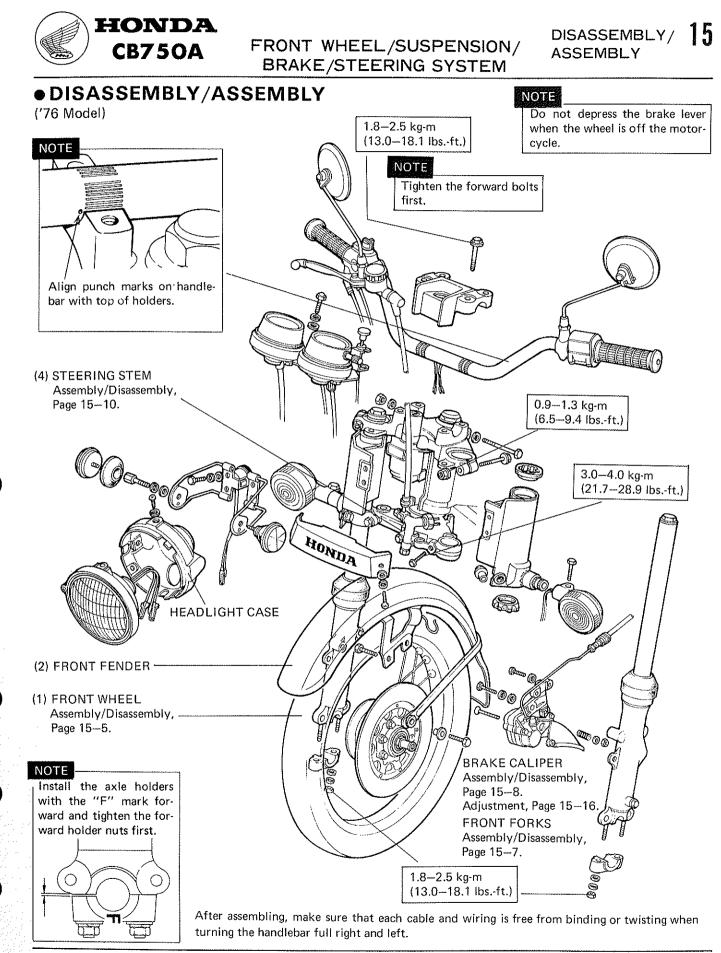
## SPECIAL TOOLS

Front bearing retainer wrench	07910-3230101
Bearing driver attachment	07945-3330100
Driver handle	07949-6110000
Snap ring pliers	07914-3230001
Fork seal driver	07947-3290000
Ball race driver	07946-3710400
48 mm Pin spanner	07902-2000000
6 mm hollow set wrench	07917-3230000

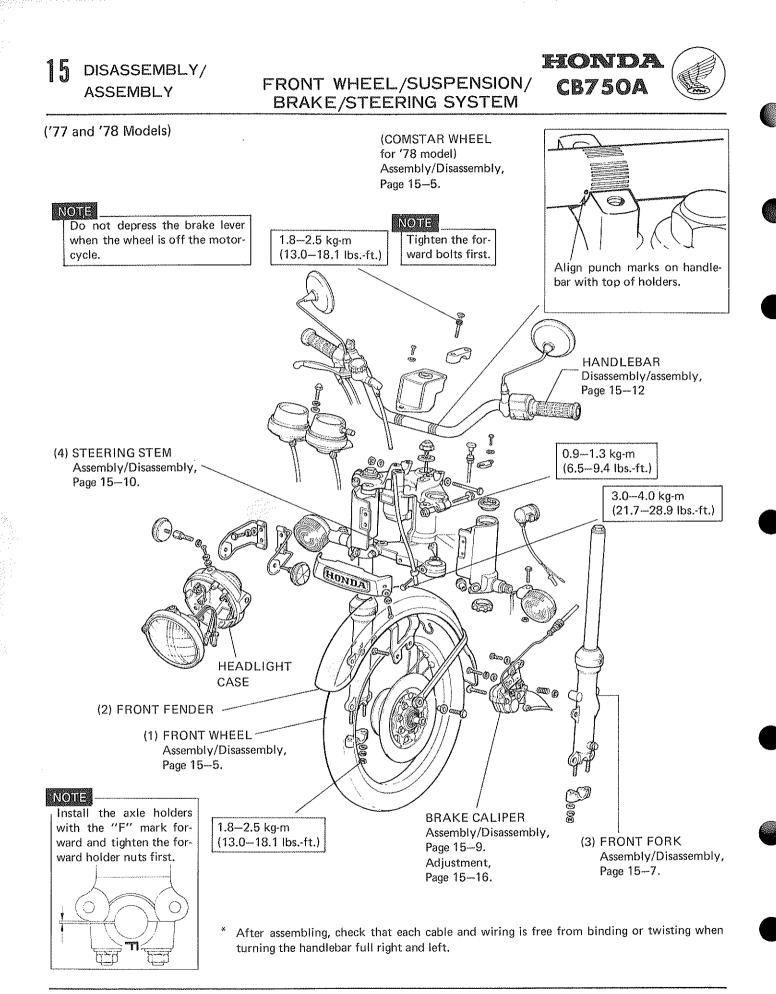
## TROUBLESHOOTING

## SYMPTOM

SYMPTOM		POSSIBLE CAUSE
Hard Steering		Steering stem nut too tight
		Defective steering stem bearings
		Damaged steering stem ball race and/or cone race
		Insufficient tire pressure
Steers to One Side or Does Not	•	Unbalanced right and left shock absorbers
Track Straight		Bent front forks
		Bent front axle; wheel installed incorrectly
Front Wheel Wobbling		Distorted rim
		Worn front wheel bearing
		Distorted wheel spokes
		Defective tire
		Axle not tightened properly
Soft Suspension	€	Weakened fork spring
		Insufficient fluid in front fork
Hard Suspension	•	Incorrect fluid weight in front fork
Front Suspension Noise		Cushion case binding
		Loose front fork or springs
Poor Brake Performance	•	Insufficient fluid in system
		Air in system
		Worn brake pads
Brakes Chatter or Squeal	\$	Caliper return out of adjustment



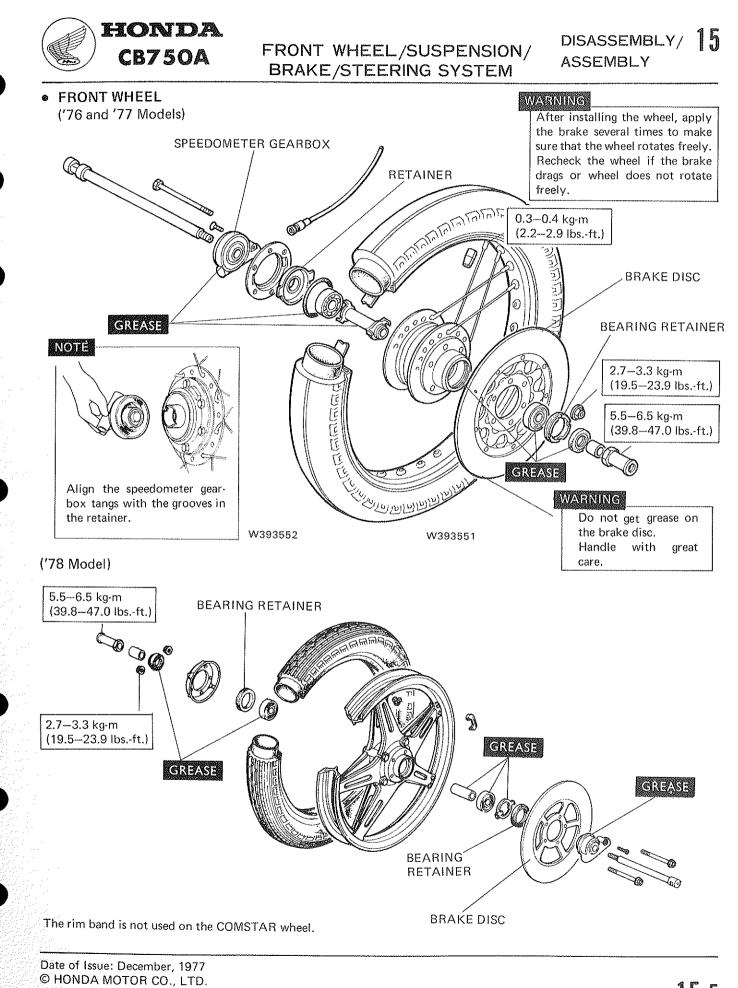
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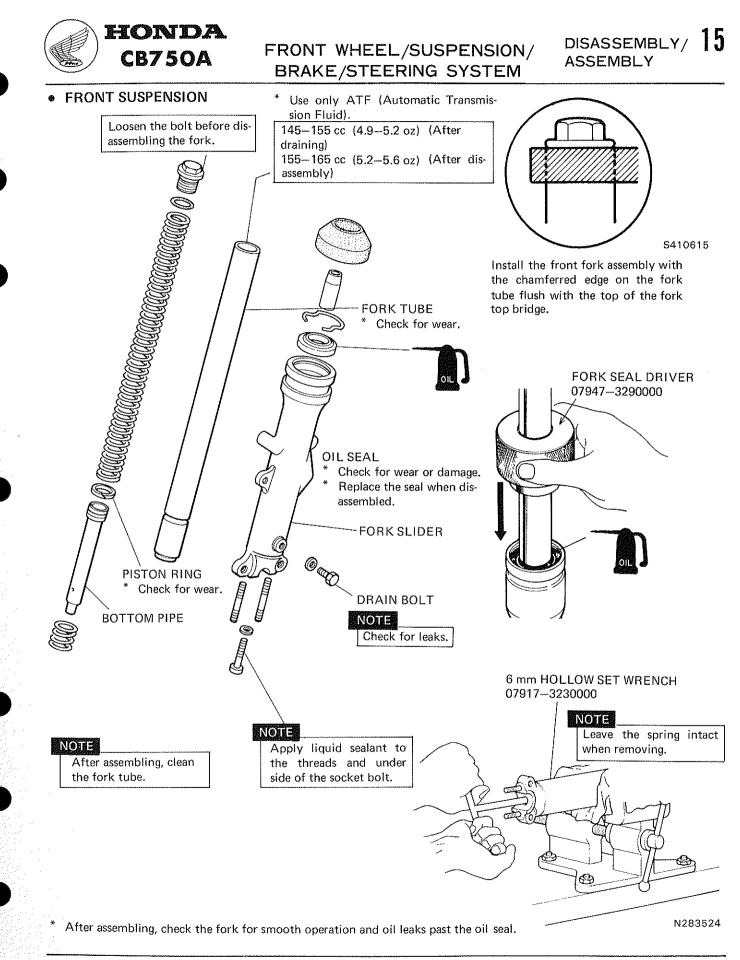
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## HONDA 15 DISASSEMBLY/ FRONT WHEEL/SUSPENSION/ **CB750A** ASSEMBLY BRAKE/STEERING SYSTEM WHEEL BEARING BEARING RETAINER WRENCH 07910-3230101 DRIVER HANDLE 07949-61100000 **BEARING DRIVER** , in ATTACHMENT 07945-3330100 STAKE N393540 HERE N393541

- Inspect the retainer and replace if cross threaded.
- After installing, stake at two places as shown.
- Drive the bearing squarely with the sealed end outward.
- Install the left bearing and retainer first, then install the collar and right bearing.
- Take care not to allow the distance collar to tilt.

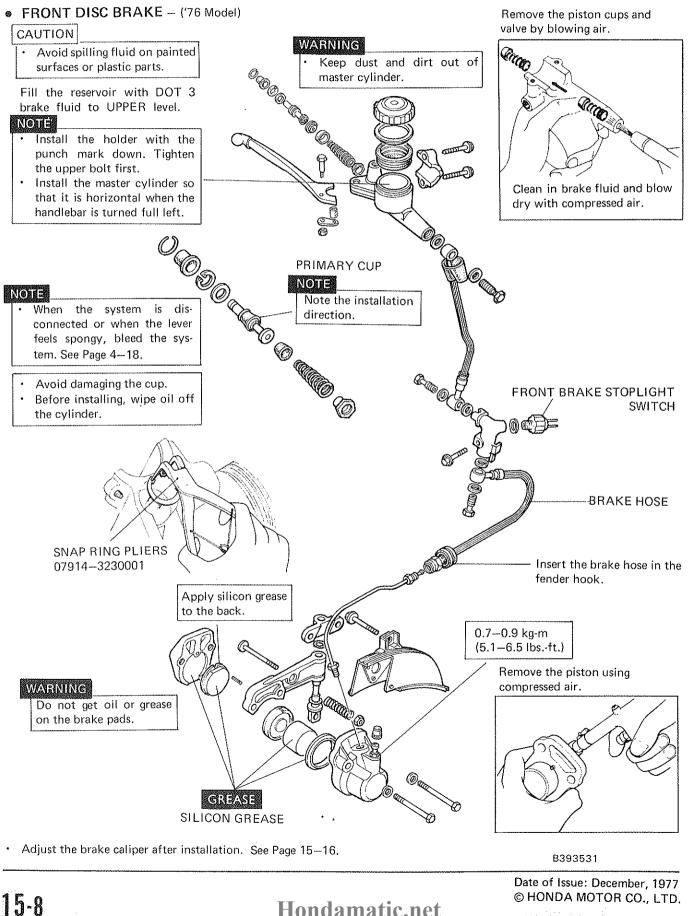
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## 15 DISASSEMBLY/ ASSEMBLY

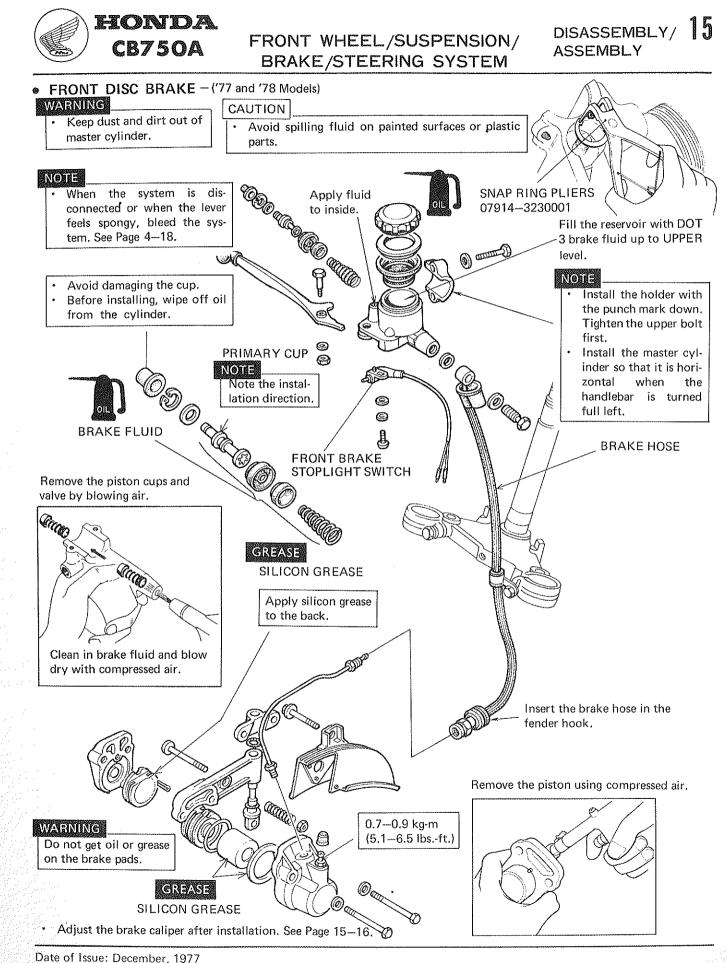
## FRONT WHEEL/SUSPENSION/ BRAKE/STEERING SYSTEM





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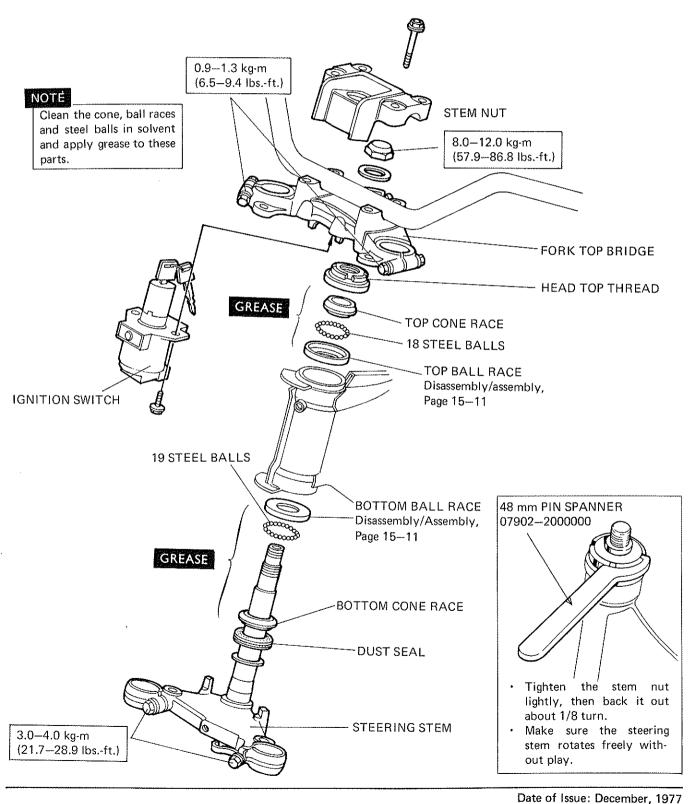
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15-9

15 DISASSEMBLY/ ASSEMBLY FRONT WHEEL/SUSPENSION/ BRAKE/STEERING SYSTEM



STEERING STEM



15-10

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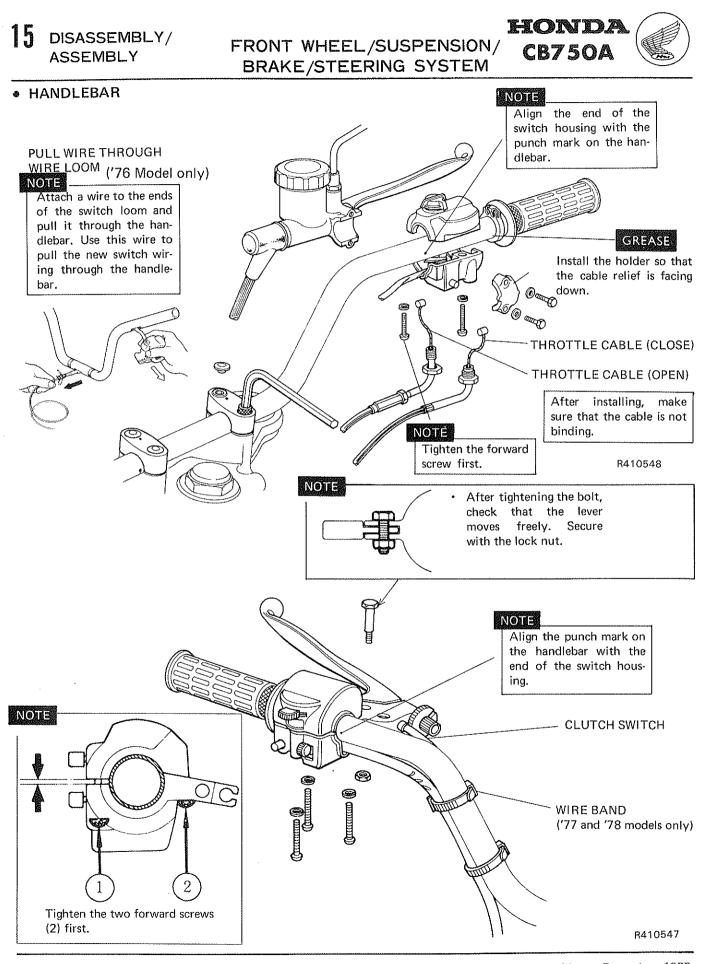
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BALL RACE

TOP/BOTTOM BALL RACE DISASSEMBLY TOP BOTTOM DRIVE BALL RACE SECURELY' L410537 L410536 L410536 L410535 L410532 BALL RACE DRIVER

BALL RACE DRIVER 07946-3710400



# 15-12

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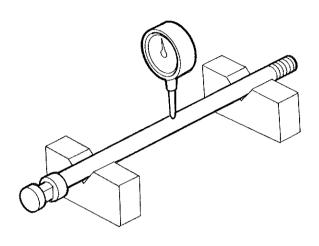
15

## INSPECTION

FRONT WHEEL AXLE RUNOUT

HONDA

**CB750A** 

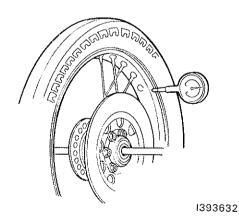


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Use 1/2 of T.I.R. (Total indicator reading).

Standard	0–0.05 mm (00.002 in.)
Service Limit	0.2 mm (0.008 in.)

FRONT WHEEL RUNOUT

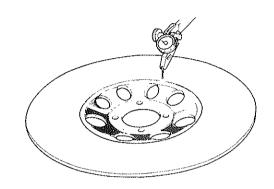


· Check the rim for distortion, damage or other defects.

(The COMSTAR wheel cannot be repaired.)

	Standard	Service Limit
Axial	0—1.0 mm (0.039 in.)	2.0 mm (0.08 in.)
Radial	0–1.0 mm (0.039 in.)	2.0 mm (0.08 in.)

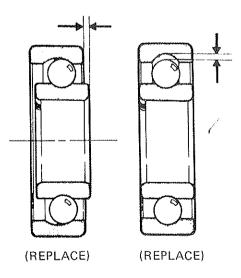
## FRONT BRAKE DISC WARPAGE



Hold the disc on a surface plate, set a dial indicator against the contact surface. Rotate the disc.

Disc renout	0-0.15 mm (0-0.006 in.)	
Service Limit	0.3 mm (0.012 in.)	
Disc thickness	7.0 mm (0.276 in.)	
Service Limit	6.0 mm (0.236 in.)	

## WHEEL BEARING PLAY



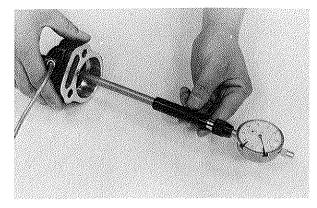
· Replace the bearing if there is excessive play.

• Replace the bearing if noisy when spinning the outer race by hand.



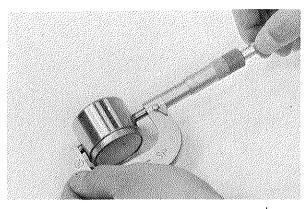


• CALIPER CYLINDER I.D.



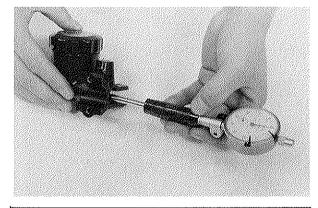
Standard	42.85–42.90 mm (1.6870–1.6889 in.)
Service Limit	42.915 mm (1.6896 in.)

• CALIPER PISTON O.D.



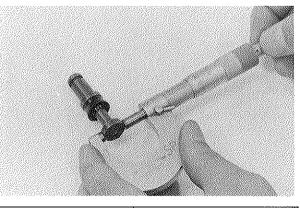
Standard	42.82 mm (1.6858 in.)
Service Limit	42.805 mm (1.6852 in.)

## • MASTER CYLINDER I.D.



Standard	14.000–14.043 mm (0.5512–0.5529 in.)
Service Limit	14.055 mm (0.5533 in.)

## • MASTER CYLINDER PISTON O.D.

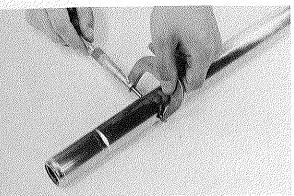


Standard	13.957–13.984 mm (0.5495–0.5506 in.)
Service Limit	13.945 mm (0.5490 in.)



15

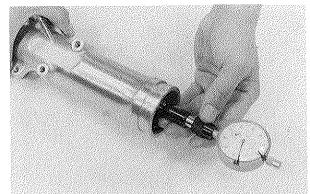
FRONT FORK TUBE O.D.



Replace the oil seals as a set if there are scores or scratches on the sliding surfaces.

Stan	dard	34.925–34.950 mm (1.375–1.376 in.)
Servi	ce Limit	34.900 mm (1.374 in.)

• FRONT FORK SLIDER I.D.



Standard	35.065-35.104 mm (1.381-1.382 in.)
Service Limit	35.250 mm (1.388 in.)

## FRONT FORK SPRING FREE LENGTH

NAMES OF THE OWNER OWNER

Standard	504.3 mm (19.85 in.)
Service Limit	495 mm (19.5 in.)

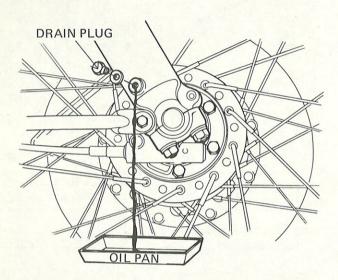
## 15 FRONT FORK OIL CALIPER ADJUSTMENT

## FRONT WHEEL/SUSPENSION/ BRAKE/STEERING SYSTEM

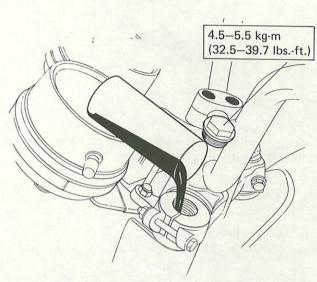


## FRONT FORK OIL

- (1) Remove the drain plug.
- (2) Drain oil by pumping the forks while the plug is out.
- (3) Reinstall the plug securely after draining.



- (4) Place the motorcycle on its center stand.
- (5) Remove the front fork filler bolt.
- (6) Pour premium quality ATF into the fork leg.
- (7) Securely tighten the front fork filler bolt.



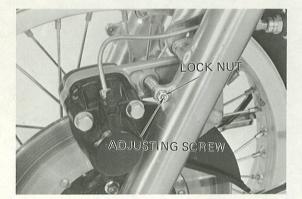
#### ATF (Automatic Transmission Fluid)

155-165 cc (5.2-5.6 oz)	145
To fill after disassembly	To

145–155 cc(4.9–5.2 oz) To fill after draining



## BRAKE CALIPER ADJUSTMENT



## NOTE

Whenever the brake pads are replaced, the brake caliper must be adjusted.

- (1) Raise the front wheel off the ground.
- (2) Loosen the lock nut.
- (3) Turn the screw out until it stops lightly and then turn it in ½ turn.
- (4) Tighten the lock nut.

# 15-16