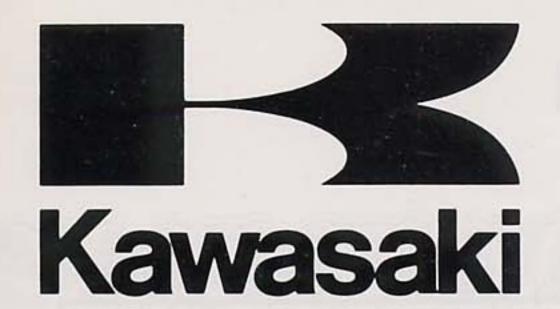


KZ400-H1 LTD



Motorcycle Service Manual Supplement



KZ400-H1:LTD

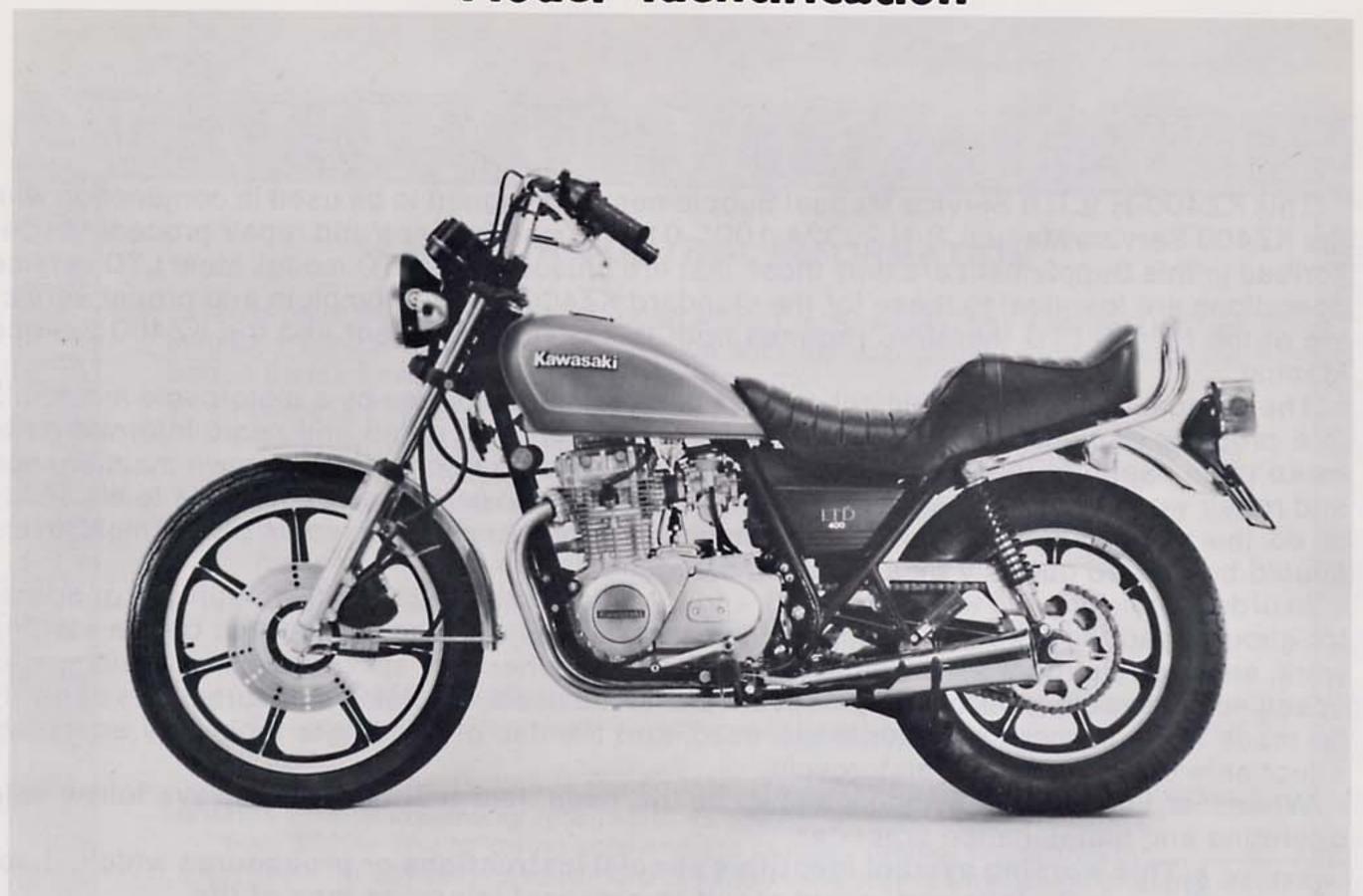


Motorcycle Service Manual Supplement

This Supplement is designed to be used in conjunction with the KZ400 Service Manual, Part No. 99924-1005-01.

All information contained in this Supplement is based on the latest product information available at the time of publication. The right is reserved to make changes at any time without prior notice and without incurring an obligation to make such changes to products manufactured previously. Published by Product Services.

Model Identification



LEFT SIDE VIEW



BEGINNING

Engine No. K4E139801 Frame No. KZ400H-000101

RIGHT SIDE VIEW

QUICK REFERENCE GUIDE

To use, bend the manual back and match the desired section below against the black spot showing at the edge of these pages. See the KZ400 Service Manual for sections not included in this Supplement.

Specifications

A

Adjustment

Chassis

C

Disassembly

Engine/Chassis

Maintenance & Theory

Chassis

J

NOTE:

100

Page numbers starting with "S-" refer to pages in this supplement. All other page numbers refer to the basic KZ400 Service Manual (P/N 99924-1005-01)

Appendix

(ASYYS) SECT.

Wiring Diagram
Cable Routing
Periodic Maint. Chart
Torque Table

M

Dimensions

Overall length 2,080 mm Overall width 810 mm Overall height 1,180 mm Wheel base 1,390 mm Road clearance 140 mm Dry weight 170 kg Fuel tank capacity 12 8

Performance

Climbing ability 24°

Braking distance 13.5 m @50 kph

Minimum turning radius 2.4 m

Engine

Type SOHC, 2 cylinder, 4 stroke, air-cooled

Bore and stroke 64.0 x 62.0 mm

Displacement 398 cc Compression ratio 9.5

Maximum horsepower 36 HP @8,500 rpm Maximum torque 3.2 kg-m @7,000 rpm

Valve timing

Inlet 27° BTDC Open Close 73° ABDC

Duration 280°

Exhaust

70° BBDC Open Close 30° ATDC

> 280° Duration

Carburetors Keihin VB32 x 2

Lubrication system Forced lubrication (wet sump)

Engine oil SE class SAE 10W40, 10W50, 20W40, or 20W50

Engine oil capacity 2.9 €

Starting system Electric and kick Ignition system Battery and coil

Ignition timing From 10° BTDC @1,100 rpm to 35° BTDC @3,200 rpm

Spark plugs NGK B7ES or ND W22ES-U

Transmission

Type 6-speed, constant mesh, return shift

Clutch Wet, multi disc Gear ratio: 1st 2.54 (33/13)

2nd 1.75 (28/16) 3rd 1.32 (25/19) 4th 1.10 (23/21) 5th 0.96 (22/23) 6th 0.88 (21/24) Primary reduction ratio 2.43 (56/23) Final reduction ratio 3.00 (45/15) Overall drive ratio 6.39 (Top gear)

Electrical Equipment

Alternator Nippon Denso 5-037000-373

Regulator/Rectifier Shindengen SH221-12

Ignition coil Nippon Denso 029700-3881

Battery Yuasa 12N 12A-4A-1 (12V 12AH)

Starter Mitsuba SM-223

Headlight type Sealed beam Headlight 12V 50/35W

Tail/Brake light 12V 8/27W (8/32 CP)

Meter lights 12V 3.4W Indicator lights 12V 3.4W Turn signal lights 12V 23W Horn 12V 2.5A

Frame

Type Tubular, double-cradle

Steering angle 40° to either side

Castor 27.5° Trail 112 mm

Tire size Front 3.25S-19 4PR

> Rear 130/90-16 67S

Suspension Front Telescopic fork

Rear Swing arm Suspension stroke Front 150 mm

Rear 95 mm

Front fork oil capacity (each fork) 145~ 155 cc **SAE 5W20**

Front fork oil type

Brakes

Type Front Disc brake

> Rear Internal expansion, leading-trailing

Effective disc diameter 230 mm Brake drum inside diameter and width 160 x 30 mm

Specifications subject to change without notice.

Adjustment

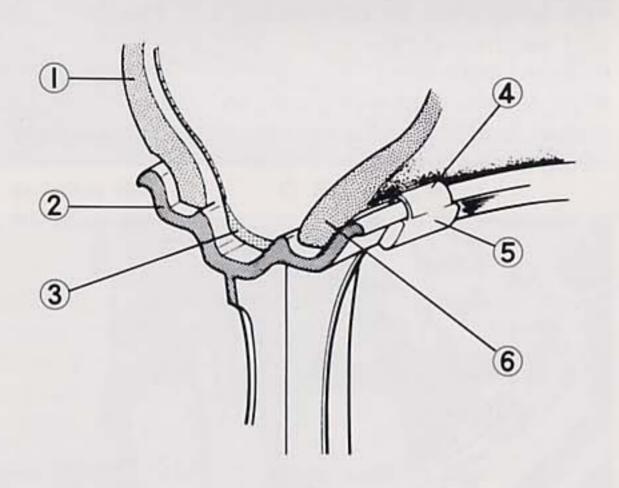
WHEEL BALANCE (For Cast Wheel)

Refer to Pgs. 29~30, noting the following:

- To install the balance weights on the rim of cast wheels:
- •First reduce the tire pressure, pry the tire bead from the rim, and then insert the blade part of the balance weight between the rim and the tire bead until the stepped portions of the rim and the weight is hooked over the rim.
- •Inflate the tire to standard pressure (Pg. S-15).

Balance Weight Installation





- 1. Tire
- 2. Rim
- 5. Weight

4. Blade

- 3. Tube
- 6. Tire Bead

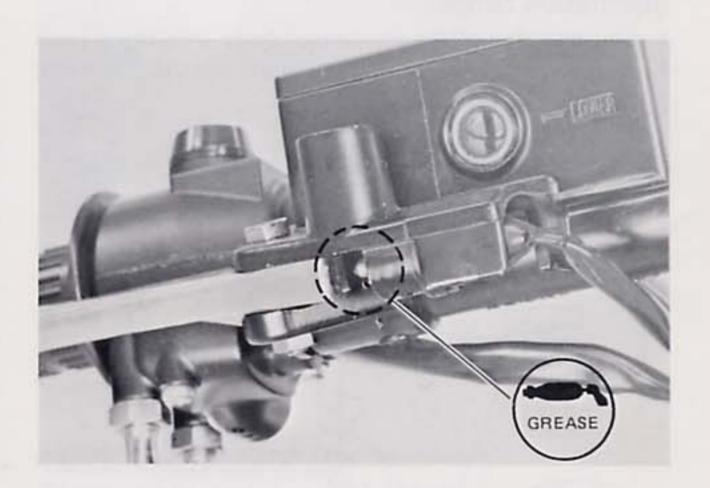
 Balance weights are available from Kawasaki Dealers in 10, 20, and 30 gram sizes. An imbalance of less than 10 grams will not usually affect running stability.

LUBRICATION (KZ400-H)

In addition to the points listed on Pgs. 31~32, check and lubricate regularly the following area.

Front Brake Lever

Apply a light coat of grease to the surface that the push rod of the front brake light switch pushes against.



Disassembly

TORQUE AND LOCKING AGENT (KZ400-H)

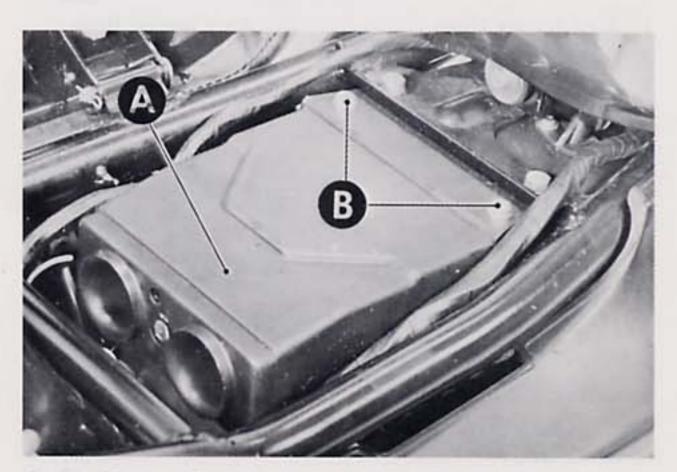
Tighten the engine parts of KZ400-H to the specified amount of torque listed on Pgs. 37~38. But tighten the chassis parts of KZ400-H to the specified torque listed in Table N1.

NOTE: Parts marked with an asterisk (*) must be retorqued according to the Periodic Maintenance Chart (Pg. S-19). One at a time, loosen each bolt or nut ½ turn, then tighten it to the specified torque. Follow the sequence if specified. For engine fasteners, retorque them when the engine is cold (at room temperature).

AIR CLEANER ELEMENT (KZ400-H) Removal.

Unlock the seat, and swing it open.

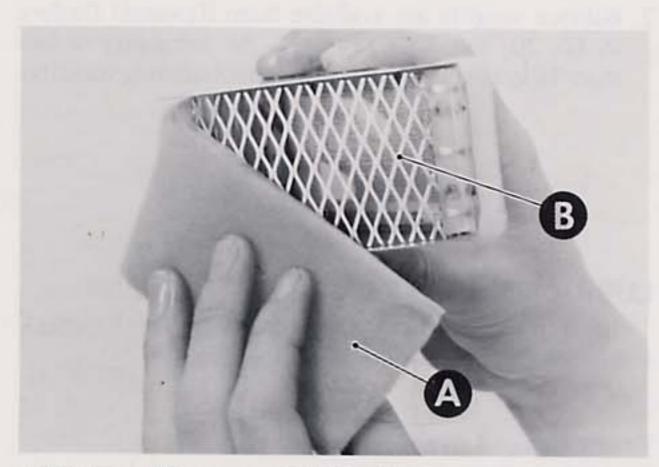
 Unscrew the mounting screws and flat washers (2 ea), and take off the air cleaner body.



A. Air Cleaner Body

B. Mounting Screws

- •Pull out the element.
- Unhook the sponge filter at both ends, and remove it from the wire frame.

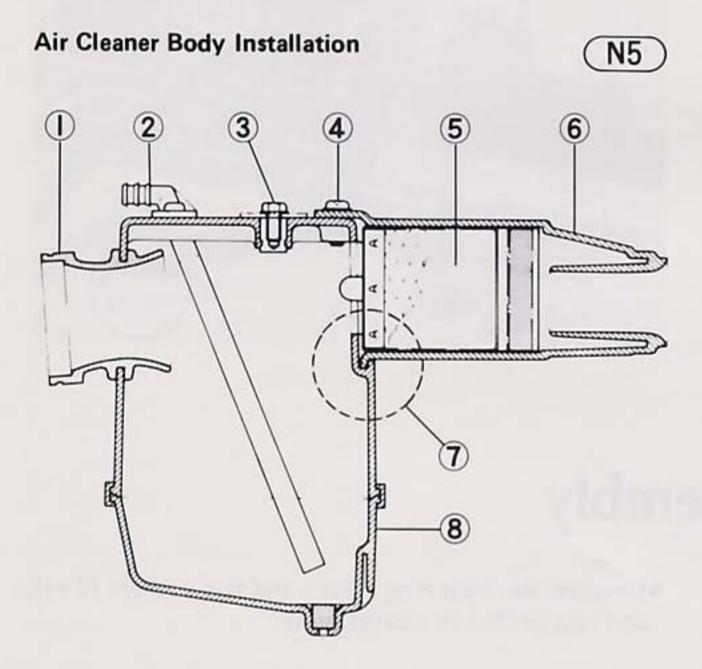


A. Sponge Filter

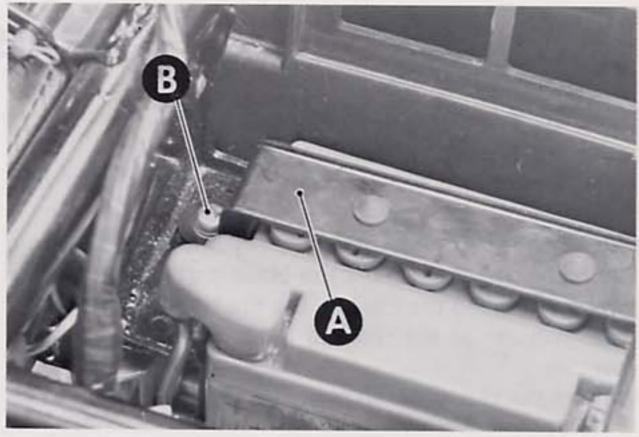
B. Wire Frame

Installation Notes:

 Fit the ridge of the air cleaner body into the groove in the air cleaner housing, and secure the mounting screws (2).



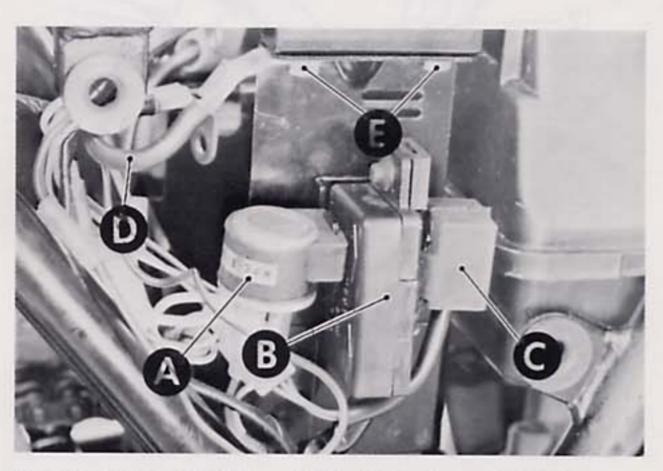
- 1. Air Cleaner Duct
- 2. Breather Hose Fitting
- 3. Housing Mounting Bolts
- 4. Body Mounting Screws
- 5. Air Cleaner Element
- 6. Air Cleaner Body
- Fit the ridge into the groove.
- 8. Air Cleaner Housing
- AIR CLEANER HOUSING (KZ400-H) Removal:
- •Remove the fuel tank (Pg. 43).
- Unscrew the mounting screws, and remove the air cleaner body.
- •Unscrew the screw, and remove the battery stay plate.



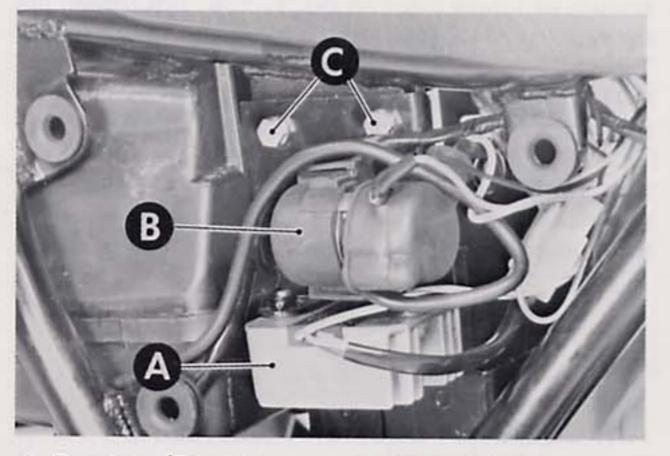
A. Stay Plate

B. Screw

- Disconnect first the negative (-) lead, and then positive
 (+) lead from the battery.
- •Remove the battery.
- •Pull off the right side cover, and free the turn signal relay, fuse box, and brake light failure indicator switch from the battery case.



- A. Turn Signal Relay
- B. Fuse Box
- C. Indicator Switch
- D. Battery Ground Lead
- E. Battery Case Mounting Bolts
- •Pull off the left side cover, disconnect the 3-pin connector and white/red lead from the regulator/rectifier, and free the starter relay from the battery case.

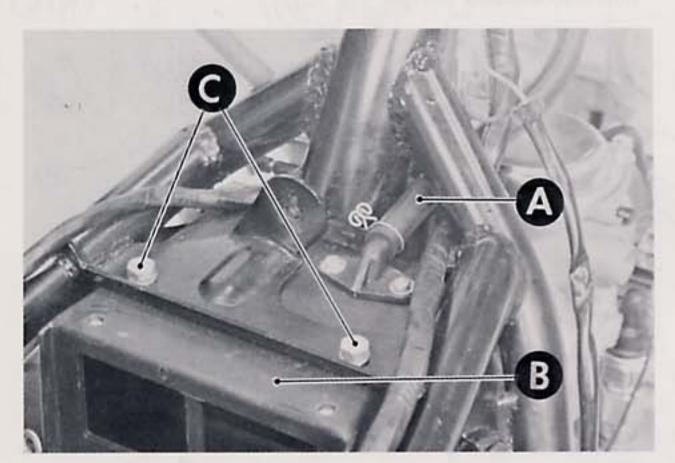


A. Regulator/Rectifier

B. Starter Relay

C. Battery Case Mounting Bolts

- •Unscrew the battery mounting bolts (4), and remove the battery case. The front of the battery case bottom is caught in the air cleaner housing, and the rear is caught on the bottom end of the rear fender.
- Loosen the air cleaner duct clamps (2), slide the hose clamp forward, and pull the breather hose off the fitting on the air cleaner housing.



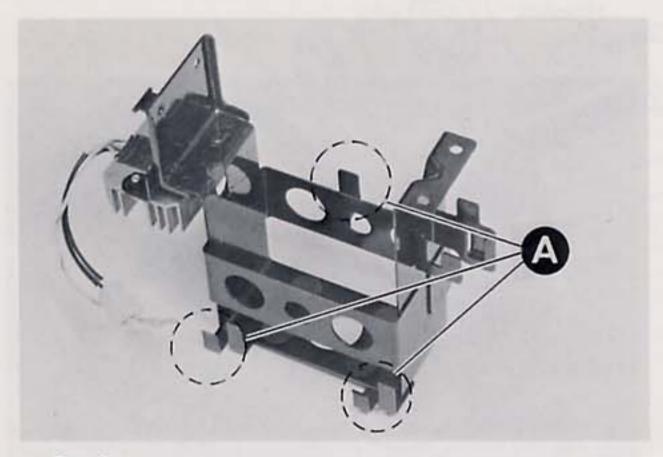
A. Breather Hose B. Air Cleaner Housing

C. Mounting Bolts

- B. Air Cleaner Housing
- •Unscrew the mounting bolts (2), and remove the air cleaner housing rearward.
- Cover the carburetor bores with a clean cloth to keep dirt out of the carburetors.

Installation Notes:

 Hook the pawls at the front and the rear of the battery case on the rear fender and in the air cleaner housing.



A. Pawls

- 2. Secure the battery ground lead together with the battery case. See Fig. N7.
- 3. Route the battery vent hose as shown on the caution label.

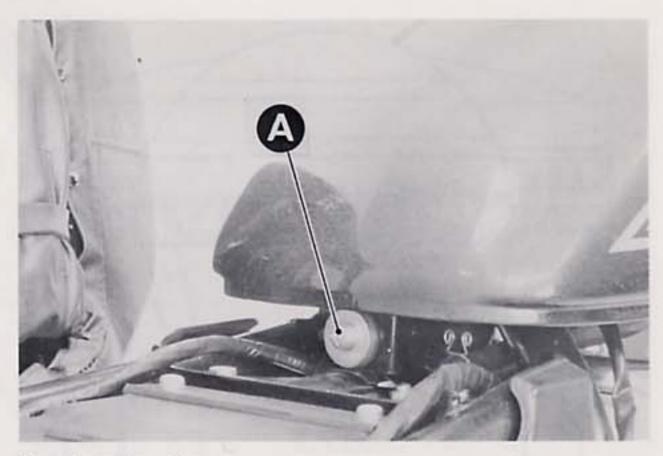
CAUTION Make sure the battery vent hose is kept away from the chain and exhaust system. Battery electrolyte can corrode and dangerously weaken the chain. Do not let the vent hose become folded, ninched, or melted by the exhaust system. An unvented

battery will not keep a charge and it may crack from built-up gas pressure.

FUEL TANK (KZ400-H) Removal and Installation:

Refer to Pgs. 43~44, noting the following:

 The fuel tank is secured on the frame with the screw at the rear end.

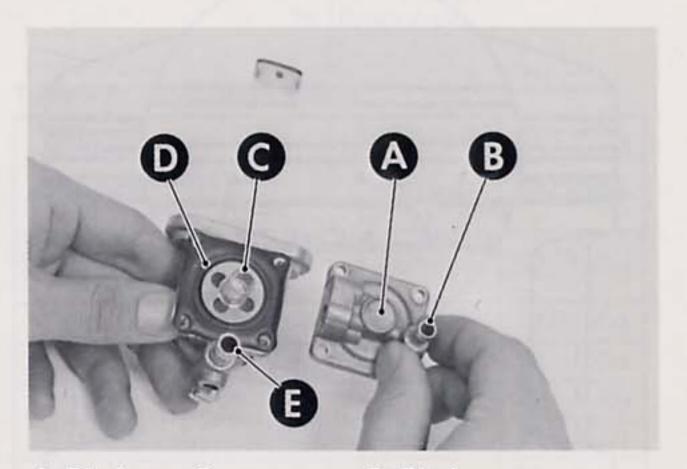


A. Mounting Screw

FUEL TAP (KZ400-H) Disassembly and Assembly Note:

Refer to Pgs. 44~45, noting the following:

 The location of the vacuum hose fitting is different from that of KZ400-B. Install the diaphragm cover in the direction shown in Fig. N12, making sure that the spring is compressed at the center of the diaphragm between the diaphragm and the cover.



A. Diaphragm Cover

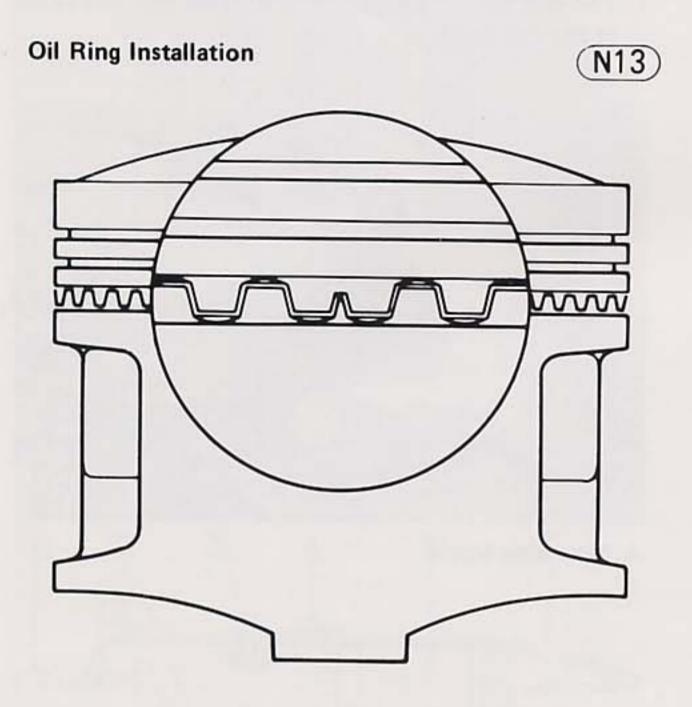
- **B. Vacuum Hose Fitting**
- C. Spring

- D. Diaphragm
- E. Fuel Hose Fitting

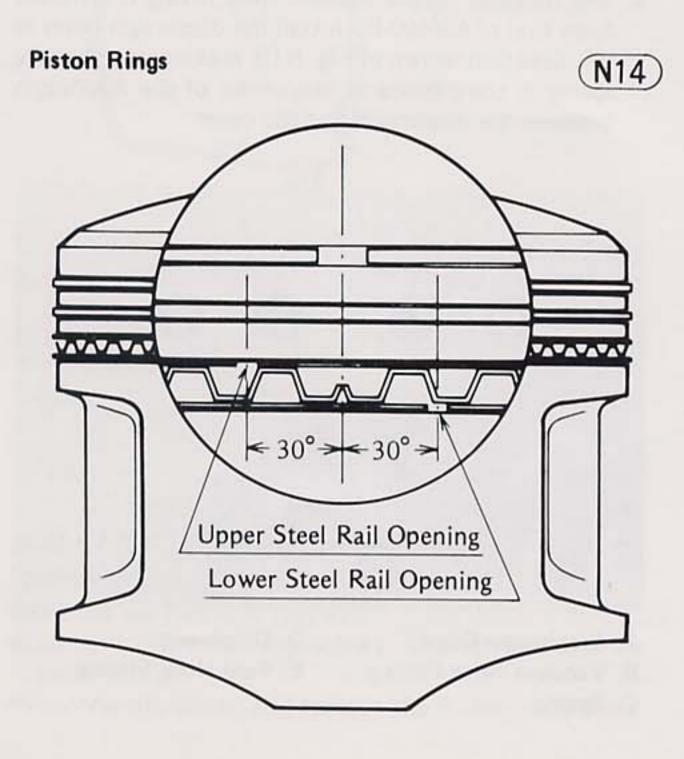
CYLINDER BLOCK, PISTON, PISTON RINGS Removal and Installation:

The piston rings are changed. When installing them on the piston, and installing the cylinder block, refer to Pgs. 57~60 noting the following:

- The oil rings are of three-piece construction using two steel rails and one expander.
- •To install the oil ring, first install the expander so that the expander ends butt together, and then install the upper and lower steel rails. There is no "up" or "down" to the rails: they can be installed either way.



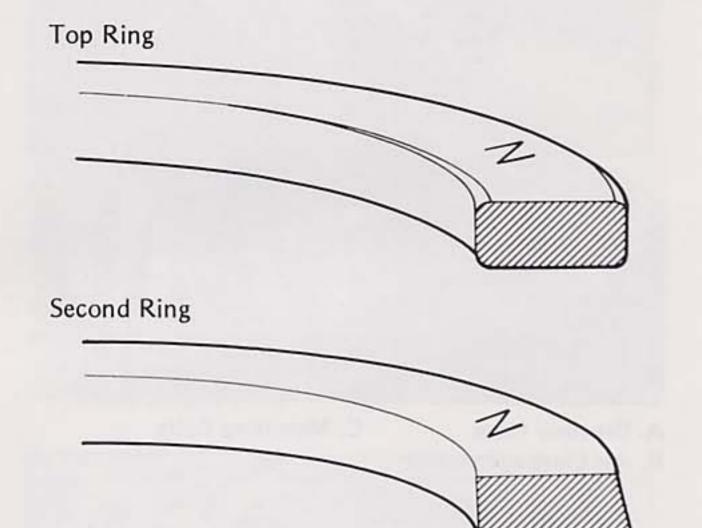
The openings of the oil ring steel rails must be positioned so that one is about 30° on one side of the opening of the expander, and the other about 30° on the other side of the expander opening.



 Install the second and top rings so that the "N" mark faces up. Do not mix up the top and second rings. Both the inner and outer edges of the top ring are chamfered. The second rings are of taper face, and the edges of the second ring are not chamfered.

Top and Second Rings

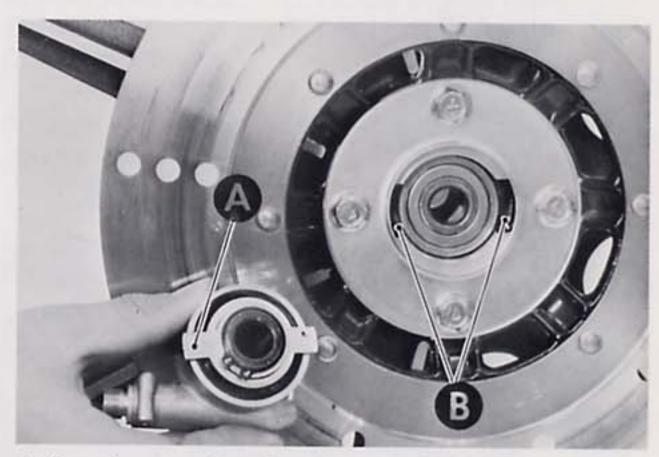
N15



FRONT WHEEL (KZ400-H) Removal and Installation:

Refer to Pgs. 107~108, noting the following:

 Fit the speedometer gear housing onto the front hub so that the speedometer gear receiver fits in the hub recesses.



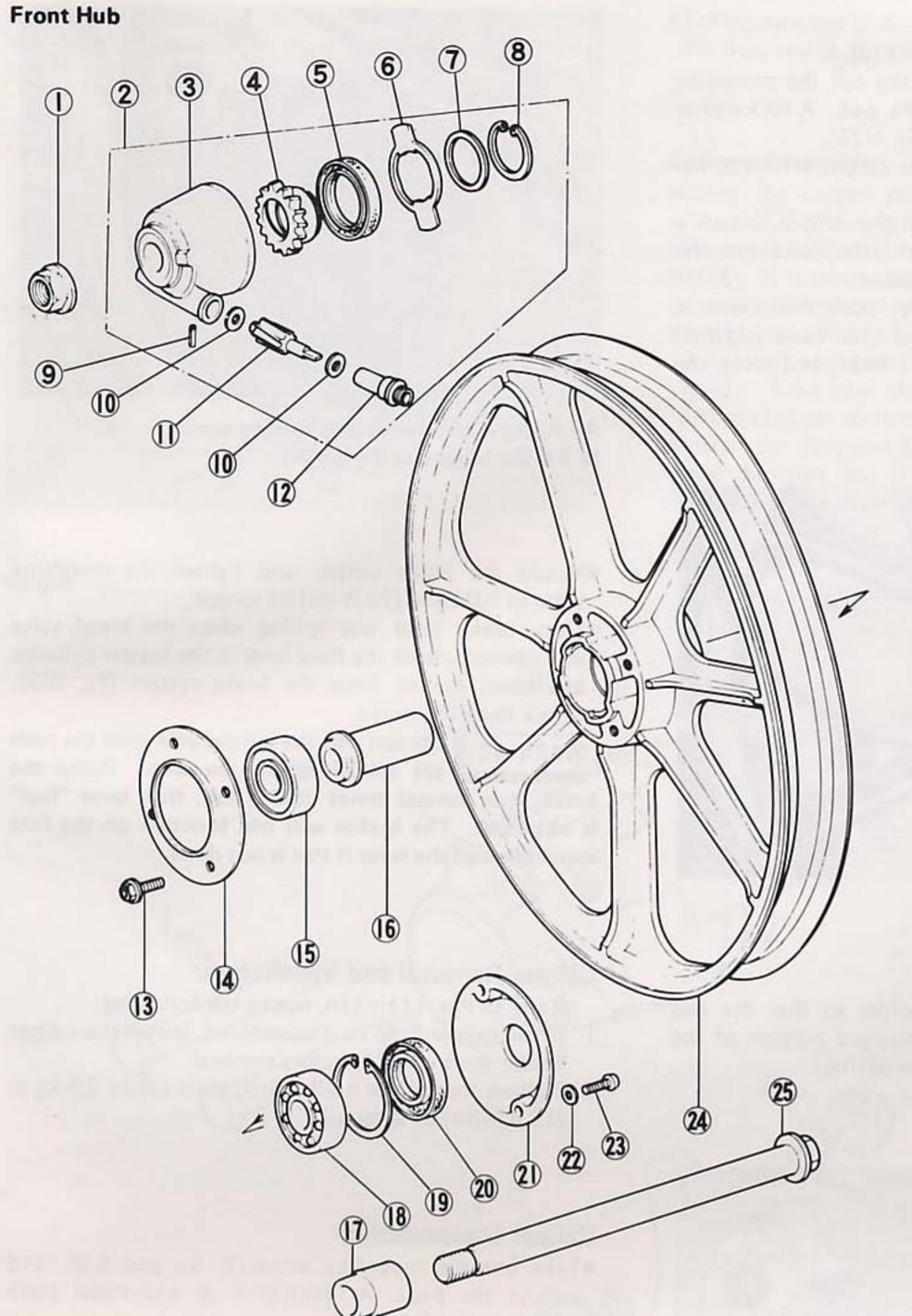
A. Speedometer Gear Receiver

B. Recesses

Front Hub Disassembly and Disassembly (Including disc removal):

Fig. N17 shows the construction of the front hub. Refer to Pgs. 109~110, noting the following:

 Install the ball bearings with the shield of each bearing facing outside.



(N17)

- 1. Axle Nut
- Speedometer Gear Housing Assembly
- 3. Speedometer Gear Housing
- 4. Speedometer Gear
- 5. Grease Seal
- 6. Gear Receiver
- 7. Washer
- 8. Circlip
- 9. Pin
- 10. Washer
- 11. Speedometer Pinion
- 12. Bushing
- 13. Disc Mounting Bolts
- 14. Plate
- 15. Ball Bearing
- 16. Distance Collar
- 17. Collar
- 18. Ball Bearing
- 19. Circlip
- 20. Grease Seal
- 21. Wheel Cap
- 22. Washer
- 23. Screws
- 24. Front Hub
- 25. Front Axle

- Use the bearing driver and the holder (special tools: P/N 57001-288, 57001-139) to press the ball bearings in.
- 3. Use the bearing driver and the holder (special tools: P/N 57001-296, 57001-139) to press the grease seal in.

FRONT DISC BRAKE (KZ400-H)

Observe carefully the caution on Pg. 114 and the torque table below before working on the disc brake.

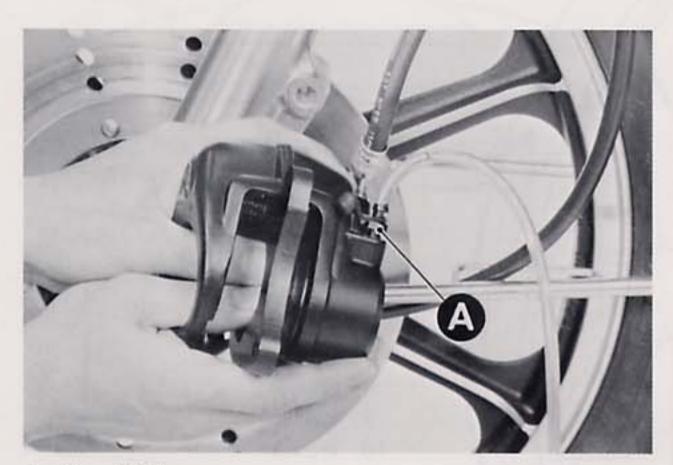
Table N2 Disc Brake Torque

Bleed valve	0.80 kg-m	69	in-lbs
Brake lever pivot bolt	0.30 kg-m	26	in-lbs
Brake lever pivot bolt locknut	0.60 kg-m	52	in-lbs
Caliper holder shaft nuts	2.6 kg-m	19.0	ft-lbs
*Caliper mounting bolts	3.0 kg-m	22	ft-lbs
Disc mounting bolts	3.0 kg-m	22	ft-lbs
Fitting (banjo) bolts	3.0 kg-m	22	ft-lbs
*Master cylinder clamp bolts	0.90 kg-m	78	in-lbs

*: Retorque these parts regularly (Pg. S-20).

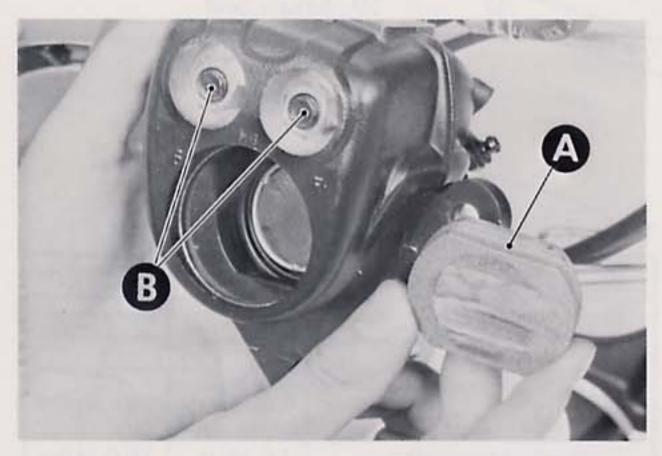
Pad Replacement:

- •Remove the caliper mounting bolts (2).
- Lift the caliper off the disc, take out the mounting screw for pad B, and remove the pad. A lockwasher and metal plate also come off (Fig. N22).
- After pad B is removed, slide the caliper holder to the piston side and remove pad A.
- Remove the bleed valve cap on the caliper, attach a clear plastic hose to the bleed valve, and run the other end of the hose into a container.
- Open (loosen) the valve slightly, push the piston in by hand as far as it will go, and then close (tighten) the valve. Wipe up any spilled fluid, and recap the bleed valve.



A. Bleed Valve

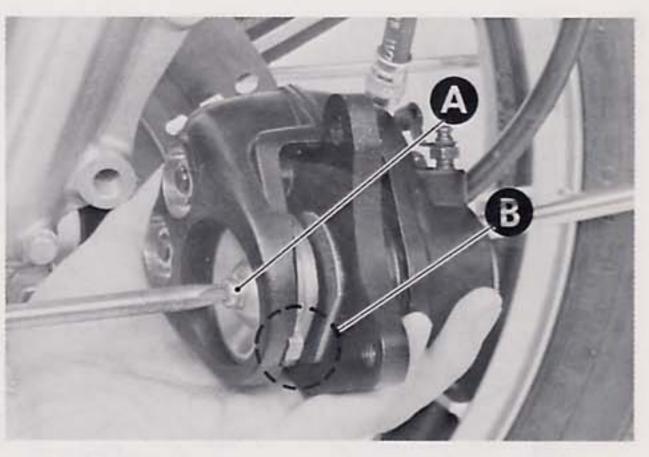
•Install pad A in the caliper holder so that the pad lining is toward the disc and stepped portion of the lining is toward the caliper holder shafts.



A. Stepped Portion

B. Caliper Holder Shafts

•Fit pad B, aligning the tongue on the pad with the groove in the caliper. Install the metal plate, lockwasher, and mounting screw; using a non-permanent locking agent on the screw.



- A. Apply a non-permanent locking agent.
- B. Fit the tongue in the groove.
- •Mount the brake caliper and tighten the mounting bolts to 3.0 kg-m (22 ft-lbs) of torque.
- •Since brake fluid was spilled when the bleed valve was opened, check the fluid level in the master cylinder and bleed the air from the brake system (Pg. 203).
- •Check the front brake.

WARNING

Do not ride the motorcycle until the pads are seated against the disc. Pump the brake lever several times until a full, firm lever "feel" is obtained. The brakes will not function on the first application of the lever if this is not done.

Caliper Removal and Installation:

Refer to Pgs. 115~116, noting the following:

- If the caliper is to be disassembled, loosen the caliper holder shaft nuts (2) before removal.
- Tighten the caliper holder shaft nuts (2) to 2.6 kg-m (19.0 ft-lbs) of torque.

Caliper Disassembly:

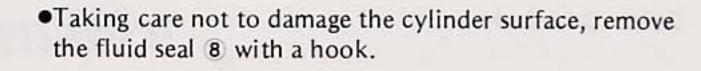
- •Take out the mounting screw 7 for pad B 4, and remove the pad. A lockwasher 6 and metal plate 15 also come off.
- Remove pad A III.
- Remove the caliper holder shaft nuts (5) (2), and pull out the caliper holder shafts (1) (2) and the spacers
 (4) (2) taking care not to damage the dust covers
 (5) (2), and pull out the caliper holder (7).

CAUTION To avoid damage to the dust covers and O rings, unscrew each shaft in turn a little at a time.

- •Remove the dust seal (1) around the piston (9).
- •Cover the caliper opening with a clean, heavy cloth, and remove the piston by lightly applying compressed air to where the brake line fits into the caliper.

WARNING To avoid serious injury, never place your fingers or palm inside the caliper opening. If you apply compressed air into the caliper, the piston may crush your hand or fingers.

NOTE: If compressed air is not available, reconnect the brake line and pump the piston out with the brake lever.



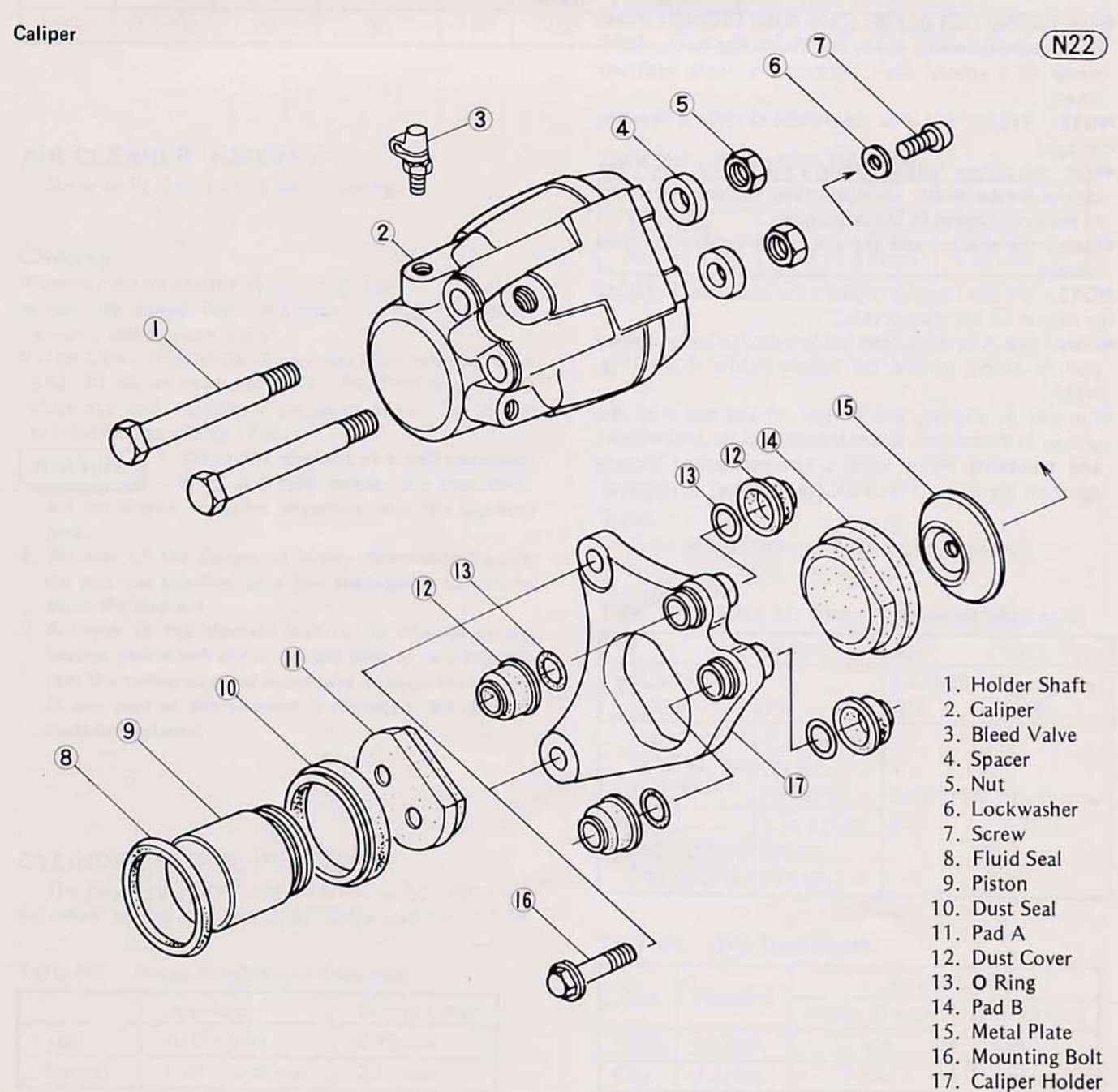


Caliper Assembly:

- ◆Clean the caliper parts with brake fluid or alcohol (See CAUTION - Pg. 114).
- •Fit a new fluid seal in place inside the cylinder.

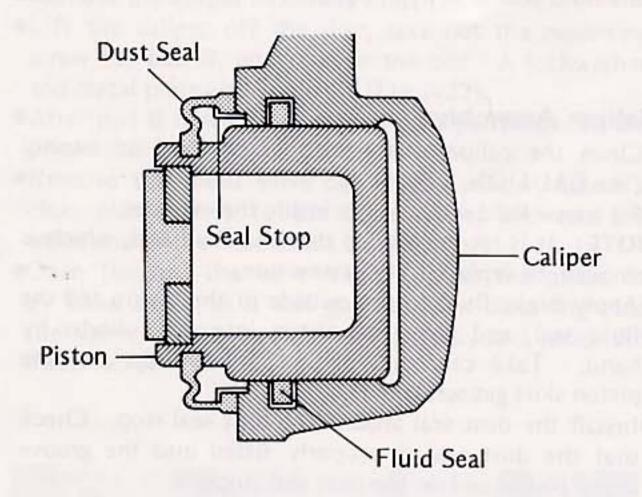
NOTE: It is recommended that the fluid seal, which is removed, be replaced with a new one.

- Apply brake fluid to the outside of the piston and the fluid seal, and push the piston into the cylinder by hand. Take care that neither the cylinder nor the piston skirt get scratched.
- •Install the dust seal around the dust seal stop. Check that the dust seal is properly fitted into the groove in the piston and on the dust seal stop.



Caliper Dust Seal





 Apply a thin coat of PBC (Poly Butyl Cuprysil) grease to the caliper holder shafts and the holder holes. (PBC grease is a special high temperature, water-resistant grease).

NOTE: Replace the dust covers and O rings if they are damaged.

- With the caliper holder properly positioned, insert the caliper holder shafts while carefully turning the shafts to prevent damage to the dust covers.
- •Install the spacers and the nuts, and tighten the nuts loosely.

NOTE: Do not forget to tighten the nuts after installing the caliper on the motorcycle.

- Install pad A in the caliper holder with its lining stepped portion facing toward the caliper holder shafts (Fig. N19).
- •Fit pad B, aligning the tongue on the pad with the groove in the caliper. Install the metal plate, lockwasher, and mounting screw using a non-permanent locking agent on the screw (Fig. N20).

Maintenance

CARBURETORS

Refer to Pgs. 150~157, noting the following:

1. Table N3 and N4 show the carburetor specifications.

Table N3 Carburetor Specifications (KZ400-B, C)

	lat	Main Jet		Air Jet			Dilet	Fuel Level	
Type	Jet Needle	Primary	Secondary	Pilot	Primary Main	Secondary Main	Pilot Jet	Design	Service
VB32	003001	70	90	130	120	50	35	32~34 mm	1.5~3.5 mm

Table N4 Carburetor Specifications (KZ400-H)

	let	Main Jet Air Jet			Pilot	Fuel Level			
Type	Needle	Primary	Secondary	Pilot	Primary Main	Secondary Main	Jet	Design	Service
VB32	003002	70	80	130	150	50	35	32~34 mm	1.5~3.5 mm

AIR CLEANER (KZ400-H)

Refer to Pg. 149, noting the following:

Cleaning

- •Remove the air cleaner element (Pg. S-8).
- •Clean the sponge filter in a bath of a high flash-point solvent, and squeeze it dry.
- After cleaning, saturate the sponge filter with SE class SAE 30 oil, squeeze out the excess, then wrap it in a clean rag and squeeze it dry as possible. Be careful not to tear the sponge filter.

1. Clean the element in a well-ventilated area, and take ample care that there are no sparks or flame anywhere near the working area.

- Because of the danger of highly flammable liquids, do not use gasoline or a low flash-point solvent to clean the element.
- A break in the element material or damage to the sponge gasket will allow dirt and dust to pass through into the carburetor and eventually damage the engine. If any part of the element is damaged, the element must be replaced.

CYLINDER BLOCK, PISTONS

The piston rings are changed. Refer to Pgs. 166~170 for other service data not specifically mentioned here.

Table N5 Piston Ring/Groove Clearance

	Standard	Service Limit
Тор	0.05~0.09 mm	0.19 mm
Second	0.01~0.05 mm	0.15 mm

Table N6 Piston Ring Thickness

	Standard	Service Limit
Top Ring	1.16~1.18 mm	1.09 mm
Second Ring	1.47~1.49 mm	1.40 mm

WHEELS (KZ400-H)

Tires

Refer to Pgs. 192~195, noting the following:

Table N7 Tires, Air Pressure (measured when cold)

	A. The second se	essure	Size	Make, Type
Front	1.75 kg/cm ² (25 psi, 175	kPa)	3.25S-19 4PR	Yokohama Y-986
Rear	Up to 97.5 kg load (21.5 lb)	1.50 kg/cm ²	130/90-16	Yokohama
Re	97.5~ 155 kg load (to 342 lb)	1.75 kg/cm ² (25 psi, 175 kPa)	67S	Y-987C

Table N8 Tire Tread Depth

Tire	Ctandard	Service Limit		
Tire	Standard	Under 70 mph	Over 70 mph	
Front	4.4 mm	1 mm	1 mm	
Rear	9.2 mm	2 mm	3 mm	

Rims

Rim runout measurement

If there is any doubt as to the condition of the wheel, or if the wheel has received a heavy impact, check the rim runout as follows:

Remove the tire and suspend the wheel by the axle. Set a dial gauge against the side of the rim, and rotate the wheel to measure the axial runout. The difference between the highest and lowest dial readings is the amount of runout.

1. Radial Runout
2. Axial Runout

Set the dial gauge against the outer circumference of the rim, and rotate the wheel to measure radial runout. The difference between the highest and lowest dial readings is the amount of runout.

If rim runout exceeds the service limit, check the wheel bearings first. Replace them if they are damaged. If the problem is not due to the bearings, the wheel must be replaced. Do not attempt to repair a damaged wheel.

Table N9 Rim Runout (With tire removed)

	Axial	Radial
Service Limit	0.5 mm	0.8 mm

Rim damage

Carefully inspect the wheel for small cracks, dents, bents, or warp. If there is any damage to the wheel, it must be replaced. The rim sizes are shown in Table N10.

WARNING

Never attempt to repair a damaged wheel.

If there is any damage besides wheel bearings, the wheel must be replaced to insure safe operational condition.

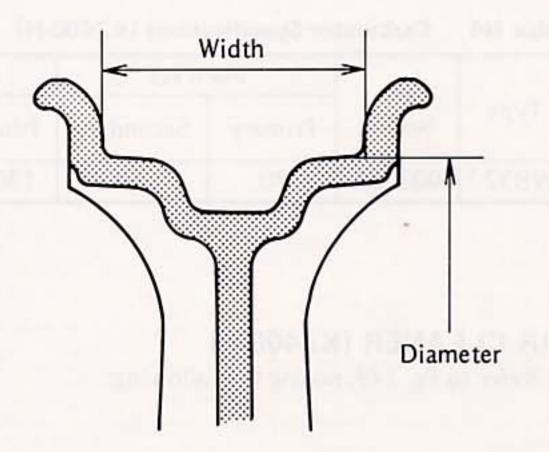
Table N10 Rim Size*

Front	Rear
19 x 1.85	16 x 2.50

* The rim size shown in the table is the bead seat diameter and inner width of the rim flanges, both in inches.

Rim Sizes

N25



Axle

Use the service data for KZ400-B (Table J5 on Pg. 196).

Wheel Bearings, Grease Seals

The front wheel bearings and grease seals of KZ400-H are the same ones as of KZ400-C. See Table J6 on Pg. 197.

DRIVE CHAIN (KZ400-H)

Refer to Pgs. 197~199, noting the following:

 The standard chain for KZ400-H is shown in the table below.

Table N11 Drive Chain

Make	Туре	Link
Enuma	EK530DG	104 link

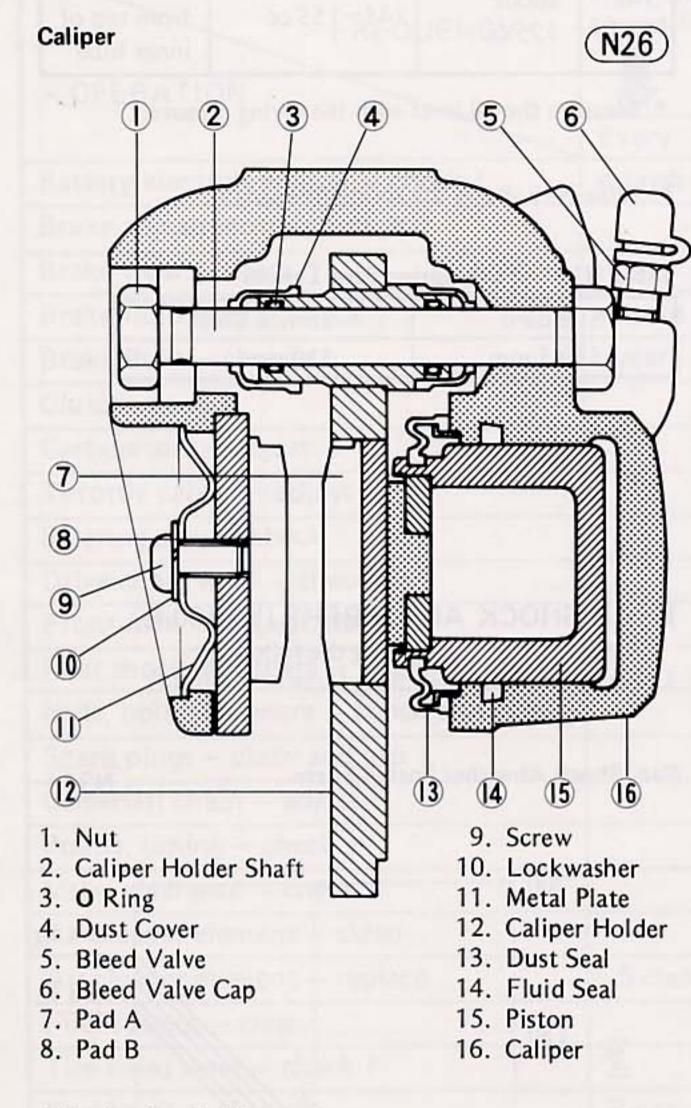
2. See Table J8 on Pg. 198 for the chain length.

DISC BRAKE (KZ400-H)

Refer to Pgs. 200 ~ 205 for other service information not specifically mentioned here.

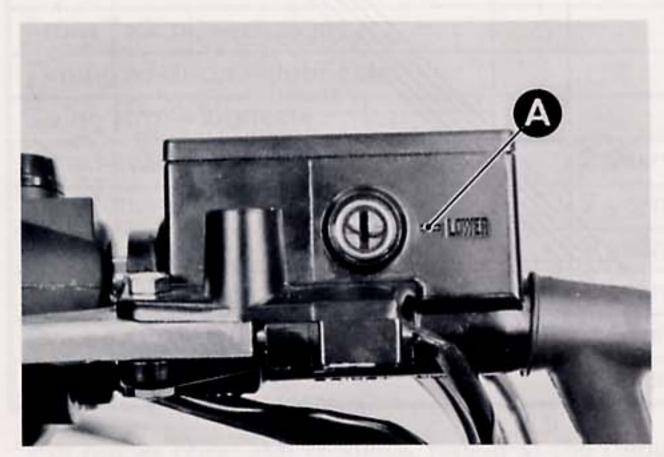
The front wheel of KZ400-H has a sliding-type caliper. The caliper assembly includes pad A 7, pad B 8, and the piston 15, which is inside the caliper cylinder.

Through the caliper run two shafts 2, which also pass through the caliper holder 12 to mount the assembly to the left front fork. When the piston forces pad A against the disc, the shaft portion of the caliper assembly slides through the holder such that pad B is also forced against the disc, both brake pads being kept parallel to the disc.



Disc brake fluid

Fill the reservoir up to more than lower level line (reservoir held horizontal).



A. Lower Level Line

Caliper parts wear

Check the thickness of the pad linings, and replace both pads as a set if the thickness of either pad is less than the service limit.

Lining Thickness

(N28)

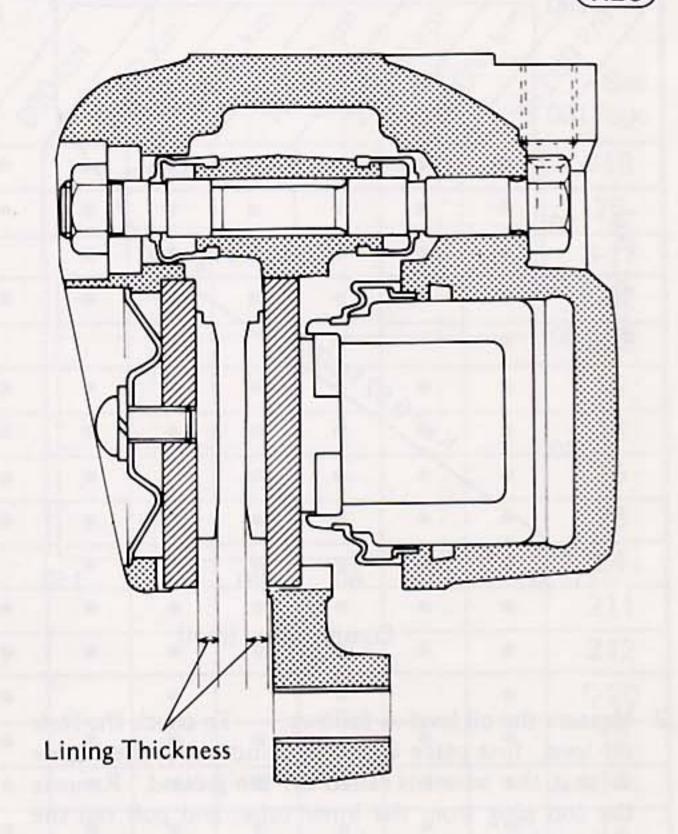


Table	N12	Lining	Thickness

Service Limit	1 mm
THE STATE OF THE PARTY OF THE P	A

Measure the cylinder inside diameter and piston outside diameter.

Replace the cylinder and piston if they are worn out of tolerance, badly scored, or rusty.

Table N13 Caliper Parts

	Standard Service Lim				
Cylinder inside diameter	42.850~42.900 mm	42.92 mm			
Piston outside diameter	42.788~42.820 mm	42.75 mm			

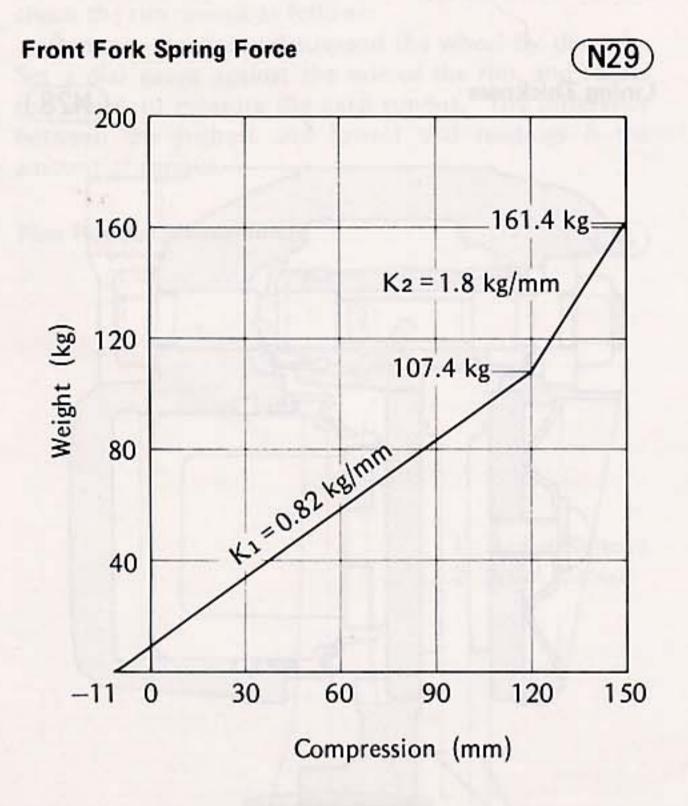
Disc wear, warp

Table N14 Disc Thickness

Standard	Service Limit
4.8~5.1 mm	4.5 mm

FRONT FORK (KZ400-H)

Refer to Pgs. 209~212, noting the following: 1. Fig. N29 shows the spring force of KZ400-H.



2. Measure the oil level as follows: To check the fork oil level, first place a jack or stand under the engine so that the wheel is raised off the ground. Remove the top plug from the inner tube, and pull out the fork spring. Insert a thin rod down into the tube, and measure the distance from the top of the inner tube to the oil level. If the oil is below the correct level, add enough oil to bring it up to the proper level, taking care not to overfill.

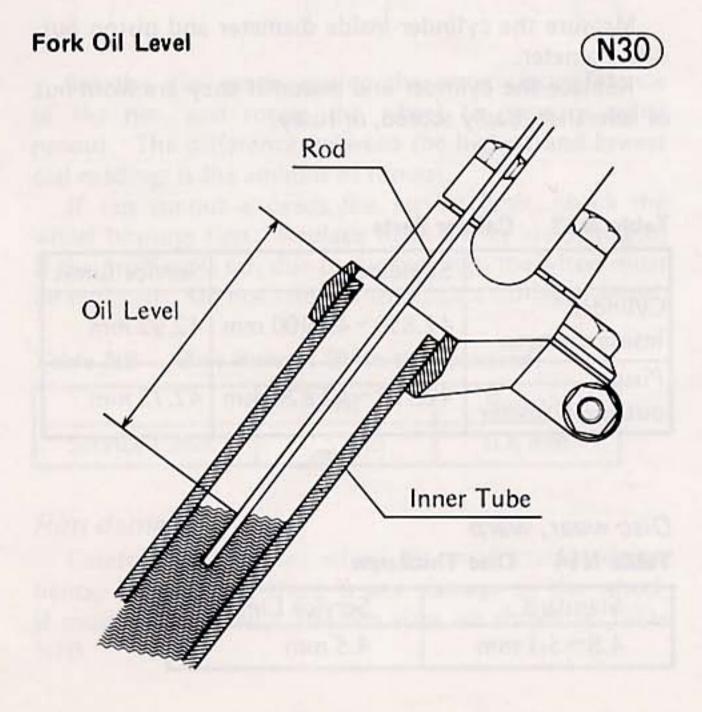


Table N15 Fork Oil

	Filling	fork oil capacity		
Туре	When charging oil	After disas- sembly and completely dry	Oil Level*	
SAE 5W20	about 125 cc	145~155 cc	475 mm from top of inner tube	

- *: Measure the oil level with the spring removed.
- 3. Table N16 shows the spring free length.

Table N16 Fork Spring Free Length

Standard	Service Limit		
519.5 mm	510 mm		

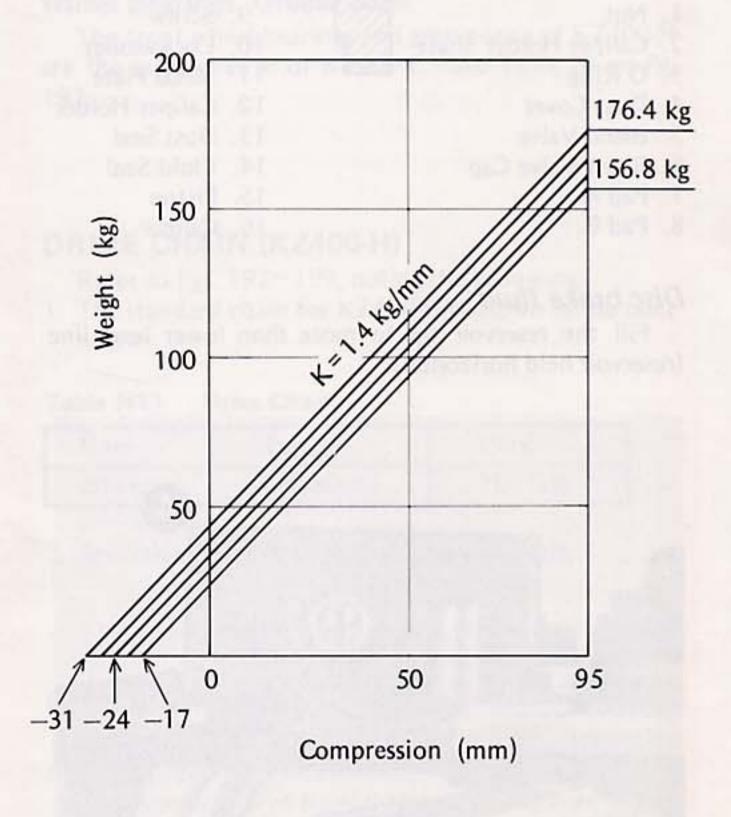
REAR SHOCK ABSORBERS (KZ400-H)

See Pgs. 212~213, noting the following:

1. Fig. N31 shows the spring force of KZ400-H.

Rear Shock Absorber Spring Force

N31



PERIODIC MAINTENANCE CHART

The maintenance and adjustments for KZ400-H must be done in accordance with this chart to keep the motorcycle in good running condition. The initial maintenance is vitally important and must not be neglected.

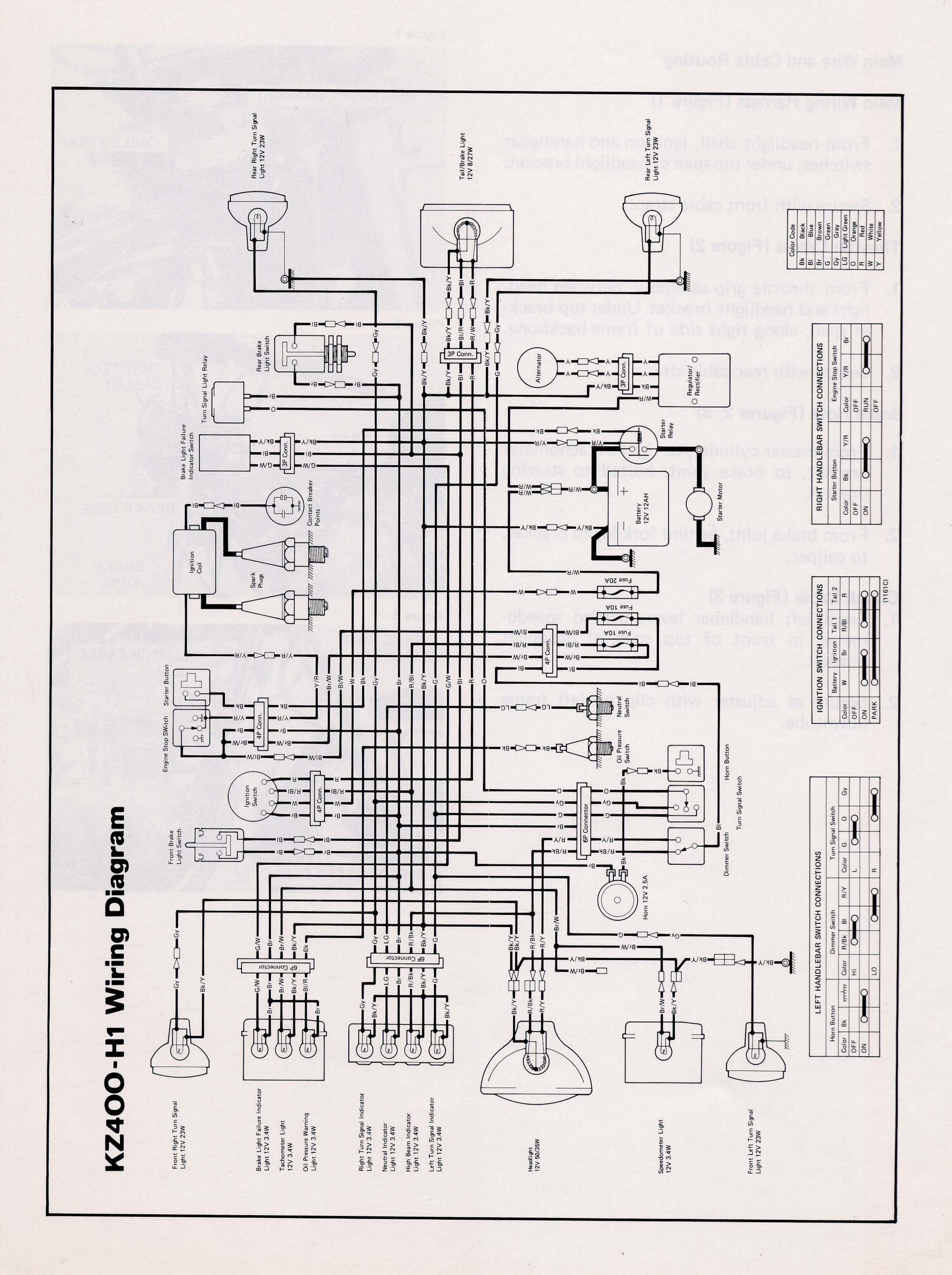
EDECUENOV.	Whichev comes fi)	7	DOME	_		7	
FREQUENCY	Comes ii			10	10 K	20 V	10 kg	30/20	See Page
OPERATION	•	/5	*E / 6	24/2	\$ / 5	\$ /	8/	30/	See See
	Every	1 %	16	/ 🔊	1/10	1	`\ \%	1/3	Page
Battery electrolyte level — check †	month	•	•	•	•	•	•	•	218
Brake adjustment – check †		•	•	•	•	•	•	•	25
Brake wear — check †			•	•	•	•	•	•	S-17
Brake fluid level - check †	month	•	•	•	•	•	•	•	S-17
Brake fluid — change	year			•		•		•	202
Clutch – adjust		•	•	•	•	•	•	•	19
Carburetors — adjust		•	•	•	•	•	•	•	16
Throttle cables — adjust		•	•	•	•	•	•	•	15
Steering play - check †		•	•	•	•	•	•	•	28
Drive chain wear - check †			•	•	•	•	•	•	24
Front fork - inspect/clean		•	•	•	•	•	•	•	211
Rear shock absorbers — inspect		•	•	•	•	•	•	•	212
Nuts, bolts, fasteners - check and torque		•		•		•		•	S-20
Spark plugs — clean and gap †		•	•	•	•	•	•	•	12
Camshaft chain – adjust		•	•	•	•	•	•	•	14
Points, timing - check †		•	•	•	•	•	•	•	12
Valve clearance - check †		•	•	•	•	•	•	•	15,162
Air cleaner element – clean			•		•		•		S-15
Air cleaner element – replace	5 clear	nings		•		•		•	S-15
Fuel system — clean		•	•	•	•	•	•	•	21
Tire tread wear - check †			•	•	•	•	•	•	S-15
Engine oil — change	year	•	•	•	•	•	•	•	20
Oil filter — replace		•		•		•		•	20,189
General lubrication – perform			•	•	•	•	•	•	
Front fork oil - change				•		•		•	271
Timing advancer — lubricate				•		•		•	226
Swing arm — lubricate				•		•		•	214
Wheel bearings — grease	2 years					•			196
Speedometer gear housing – grease	2 years					•			197
Brake camshaft — grease	2 years					•			207
Steering stem bearings — grease	2 years					•			208
Drive chain — lubricate	Every	300 k	m						198
Drive chain — adjust	Every	800 k	m						24

^{*}For higher odometer readings, repeat at the frequency interval established here.

[†]Replace, add or adjust if necessary.

Table N1 Tightening Torque (KZ400-H)

Chassis Part (φ Indicates diameter)	Locking Agent (•), Liquid Gasket (*) Required	Quantity	Metric (kg-m)	English (ft-lbs)	See Pg.		
*Brake cam lever bolt		1	-	-	OPERATIO		
Brake pedal pivot nut	1 (2) m	1	_	_	_		
*Clutch lever holder bolt ϕ 6 P1.0	= 191	1	- 1	- Stel 100			
*Disc brake parts	See Table N2 on Pg. S-11						
*Front axle nut ϕ 14 P1.5	_	1	8.0	58	107		
*Front fender mounting bolts \$\phi 8 P1.25	-	4	_	-transfe	- mossing		
*Front footpeg mounting bolts	_	2		re <u>ui</u> be -	apideo <u>a</u> yrom		
Front fork bottom Allen bolts ϕ 10 P1.0	•,*	2	1.8	13.0	142		
*Front fork clamp bolts upper $\phi 8 P1.25$ lower $\phi 10 P1.25$	_	2 2	1.8 3.0	13.0 22	138,140 29,138,140		
Handlebar clamp bolts ϕ 8 P1.25	-	4	1.8	13.0	135		
*Kick pedal bolt	-	1	_	_	mins <u>t</u> an		
Pad mounting screw	•	1	-		S-12		
*Rear axle nut ϕ 16 P1.5	E TOWN	1	12.0	87	25		
*Rear footpeg (muffler) mounting bolts	_	2	_	(1029)	50		
*Rear shock absorber mounting bolts ϕ 10 P1.25 nuts ϕ 10 P1.25		2 2	3.0	22 22	120,143,14 143		
Rear sprocket nuts ϕ 10 P1.25	=	4	4.0	29	122		
*Shift pedal bolt ϕ 6 P1.0		1	_		epwhinis		
*Steering stem head bolt ϕ 16 P1.5	-	1	4.5	33	29,138		
*Steering stem head clamp bolt \$\phi 8 P1.25\$		1	1.8	13.0	29,138		
Steering stem locknut ϕ 30 P1.0	_ 100	1	3.0	22	29,138		
*Swing arm pivot shaft nut ϕ 14 P1.5	- 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1	1	8.0	58	143		
*Torque link nuts ø 10 P1.25	-	2	3.0	22	25,111,149		



Main Wire and Cable Routing

Main Wiring Harness (Figure 1)

- From headlight shell, ignition and handlebar switches; under top span of headlight bracket.
- 2. Secure with front cable strap.

Throttle Cables (Figure 2)

- From throttle grip assembly, between headlight and headlight bracket. Under top bracket span, along right side of frame backbone.
- 2. Secure with rear cable strap.

Brake Hose (Figures 2, 3)

- From master cylinder, to right of tachometer bracket, to brake joint, bolted to steering bracket.
- From brake joint, behind fork leg to bracket, to caliper.

Clutch Cable (Figure 3)

- From left handlebar lever, behind speedometer; in front of top span of headlight bracket.
- Secure at adjuster with clip on left frame downtube.

Figure 1

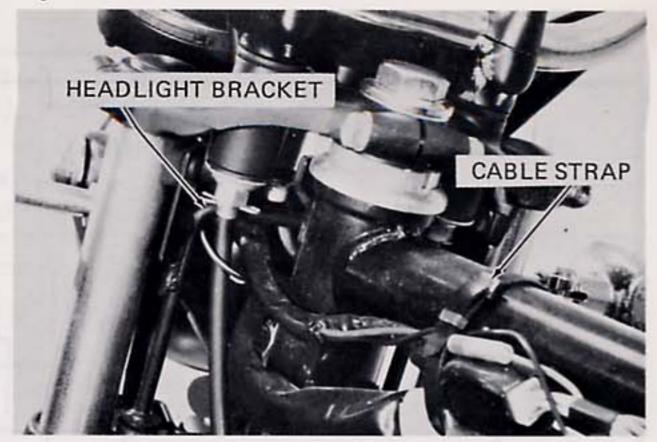


Figure 2

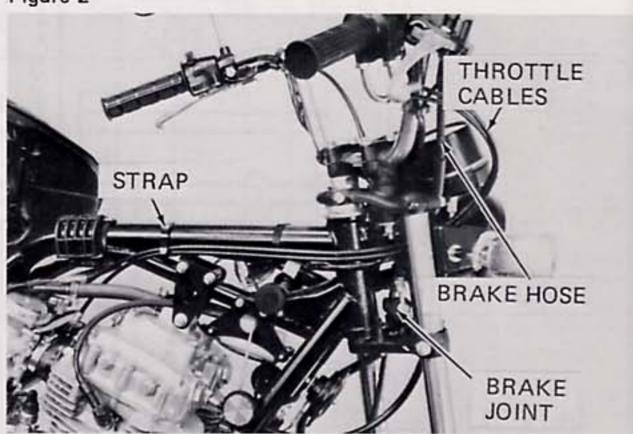
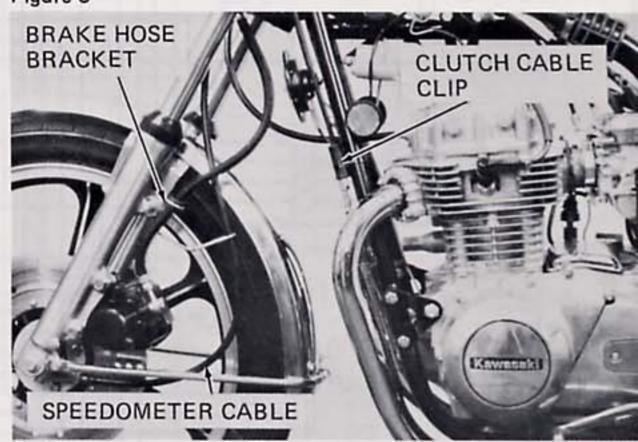


Figure 3



KZ400-H1 LTD

Kawasaki Motors Corp., U.S.A.

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