

KAWASAKI

INSTALLATION
AND AIR BLEEDING
FOR THE
DUAL DISC BRAKES
CONVERSION KIT
FOR
HI · 500 AND H2 · 750

KIT No.99990-516

Printed No. 99997-707.

KAWASAKI HEAVY INDUSTRIES, LTD. MOTOR CYCLE DIVISION

Tools and Supplies:

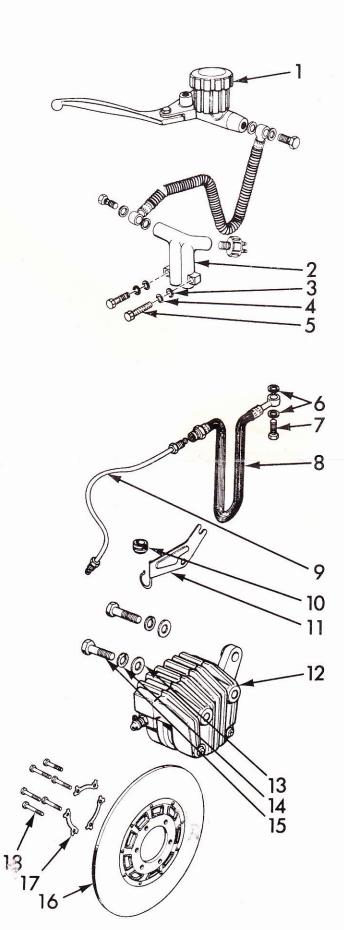
Wrenches, 10, 12, 13, 14, 17, 19mm Common screwdriver Phillips screwdriver, No. 2 Common pliers

Clean cloth
Clear plastic hose
Brake fluid
Rubbing alcohol
Wooden box
Container, 1 quart capacity

Parts List:

The following parts should be included in your dual disc brake conversion kit:

Description	Part No.	Quantity
Master cylinder assembly [1]	007 43015- 002	1
Joint fitting, four-way [2] Washers, plain 6mm [3]	43075-001 410B0600	1 50 50
Washers, spring 6mm [4] Bolts, hex head, 6 x 32 [5]	461F0600 110N0632	10
Washers, oil bolt [6] Bolts, oil [7] Hose, front brake [8]	43067-001 43066-001 43059-002	10 5 1
Pipe, front brake RH [9] Rubber damper, brake	43060-002	1
hose [10] Hose bracket [11] Caliper brake	43064-001 43063-003	10
assembly [12] Washers, plain, 10mm [13]	43041-002 410B1000	1 10
Washers, spring, 10mm [14]	461F1000	10
Bolt, hex head, 10 x 48 [15] Disc plate [16]	43070-001 41080-001	5 1
Washers, lock 8mm [17] Bolts, hex head	92088-014	5
8 x 28 [18]	92001-104	10



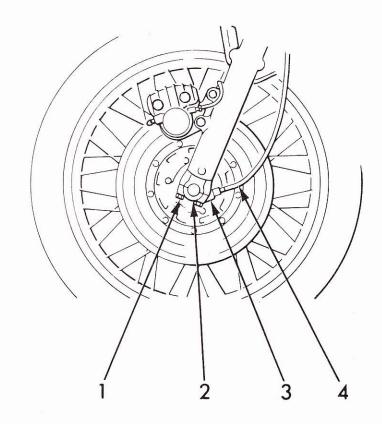
REMOVE FRONT WHEEL

- 1. Disconnect speedometer cable [4] from speedometer drive gear assembly [3].
- 2. Place wooden box under engine to raise front wheel off ground.

In next step, wheel must be supported while removing right and left mounting caps [2].

3. Remove left and right 13mm nuts [1] and washers. Remove mounting caps [2]. Remove wheel.

REMOVE ENDS HERE



REMOVE AND INSTALL JOINT FITTING

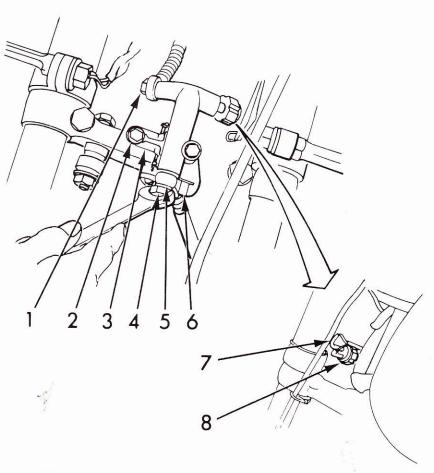
Remove Joint Fitting.

CAUTION

If brake fluid is spilled, it must be cleaned immediately from chromed, painted or rubber parts to prevent damage to these parts.

- 1. Place container under joint fitting [3]. Disconnect front brake hose [5] by removing 14mm oil bolt [4] and washers. Allow brake fluid to drain completely.
- 2. Disconnect two electrical wires [7] on stop light switch [8].
- 3. Remove 14mm oil bolt [1] and washers.
- 4. Using vise grip pliers, carefully remove stop light switch [8].
- 5. Remove two 10mm bolts [2] and washers. Remove joint fitting [3] and hose bracket [6]. Discard hose bracket.

REMOVE ENDS HERE



REMOVE AND INSTALL JOINT FITTING Install Four-Way Joint Fitting.

- 1. Install stop light switch [6] in Four-Way joint fitting [8], fingertight.
- 2. Place washer and hose [5] at installed position. Install 14mm oil bolt [2] and washer. See Torque Value Chart on last page.
- 3. Install spring washer [9] and plain washer on two 10mm bolts [0].
- 4. Place Four-Way joint fitting [8] at installed position. Install two bolts [10]. See Torque Value Chart on last page.
- 5. Tighten stop light switch [6]. Connect two electrical wires [11].

Brake hose bracket [1] should be installed between fender brace [3] and lower fork leg [7].

- 6. Remove two 13mm bolts [4] and washers.
- 7. Place and hold hose bracket [1] at installed position. Install two 13mm bolts [4] and washers. See Torque Value Chart on last page.

INSTALL ENDS HERE

REMOVE AND INSTALL MASTER CYLINDER

Remove Master Cylinder.

- 1. Remove rear view mirror, if installed.
- 2. Slide rubber boot [7] down hose [8]. Remove 14mm oil bolt [6] and washers.
- 3. While holding master cylinder [4], remove two 10mm bolts [1] and washers. Remove holder [3]. Remove and discard master cylinder.

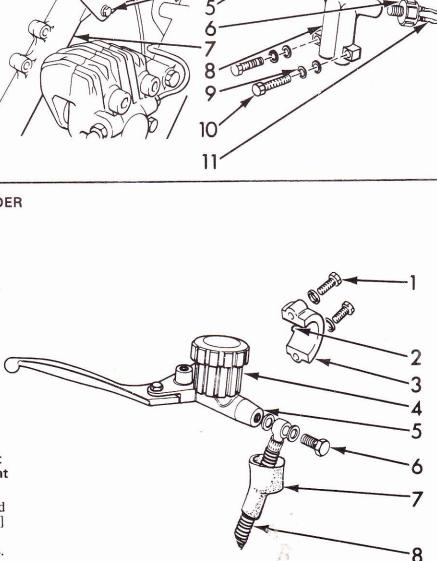
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Install Master Cylinder.

WARNING

Be sure master cylinder Part Number 43015-002 is used. Old master cylinder must not be used. Cylinder's capacity is insufficient to safely operate both caliper brakes.

- 4. Place new master cylinder [4] at installed position. Install holder [3] with tab [2] facing to rear.
 Install two 10mm bolts [1] and washers. See Torque Value Chart on last page.
- 5. Place washer and brake hose [8] at installed position. Install oil bolt [6] and washer.
- 6. Slide rubber boot [7] over outlet [5].

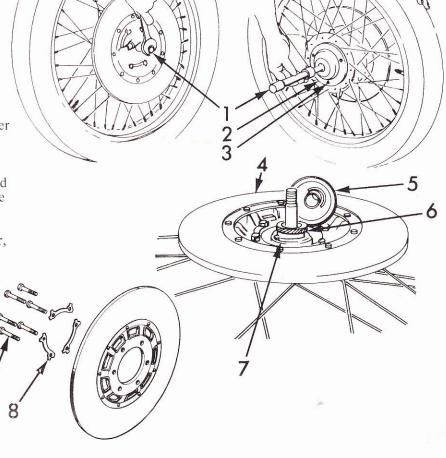


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INSTALL BRAKE DISC PLATE CAUTION

When removing speedometer drive gear assembly [5], be careful not to drop drive gear [6].

- 1. While holding 19mm axle [1], remove 19mm speedometer drive gear assembly [5] by turning counterclockwise.
- 2. Remove axle [1] from hub [7].
- 3. Remove three screws [3]. Remove cover plate [2].
- 4. Place brake disc plate [4] at installed position. Install six 12mm bolts [9] and lock tab washers [8]. See Torque Value Chart on last page.
- 5. Using hammer and common screwdriver, bend lock washer tabs [8] up.
- 6. Clean disc [4] with rubbing alcohol.



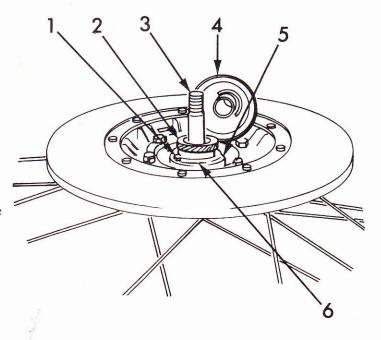
1. Place axle [3] in hub [5].

CAUTION

Be sure keys [1] are inserted in cutouts [6] of hub [5].

- 2. Install speedometer drive gear assembly [4] by turning clockwise.
- 3. While holding speedometer drive gear assembly [4], tighten 19mm axle [3]. See Torque Value Chart on last page.

INSTALL ENDS HERE

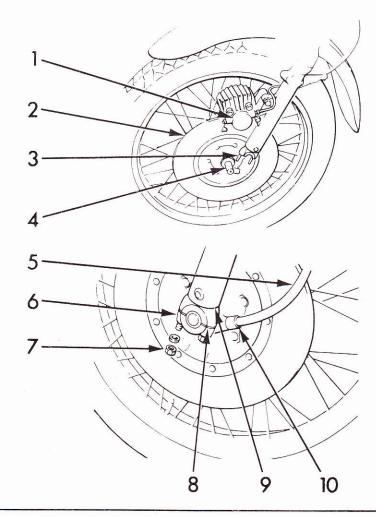


INSTALL FRONT WHEEL

- 1. Lift wheel to installed position with left disc [2] between caliper brake pads [1].
- 2. Check that axle ends [4] are between mounting studs [3].

Flat side of nut [7] must face lock washer.

- 3. Place left and right mounting caps [6] at installed position. Install lock washers and nuts [7].
- 4. Check that gap [8] between mounting caps [6] and front fork [9] is equal.
- 5. Loosen or tighten nuts [7] until gap [8] is equal. See Torque Value Chart on last page.
- 6. Insert speedometer cable [5] into drive gear assembly [10]. While spinning wheel, tighten speedometer cable.

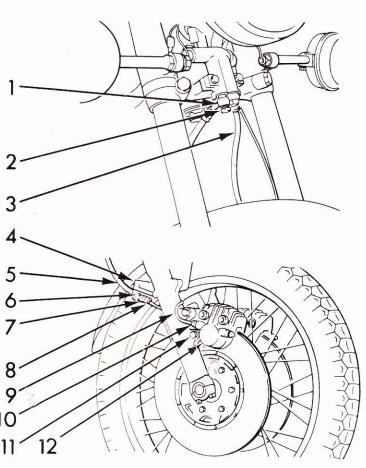


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INSTALL CALIPER BRAKE ASSEMBLY

- Place lock washer and plain washer on two 14mm bolts [11].
- 2. Place caliper brake assembly [12] at installed position. Install two 14mm bolts [11]. See Torque Value Chart on last page.
- 3. Carefully install hydraulic brake pipe [9] in caliper brake assembly [12] fingertight.
- 4. Insert front brake hose [5] through rubber grommet [6]. Install grommet in hose bracket [4].
- 5. Connect hose [5] to pipe [9].
- 6. Place washers and brake hoses [1,3] at installed position. Install washers and two 14mm oil bolts [2].
- 7. While holding 17mm union -nut [7], tighten 10mm union-nut [8]. Tighten 10mm union -nut [10]. See Torque Value Chart on last page.
- 8. Install rear view mirror, if removed.

INSTALL ENDS HERE

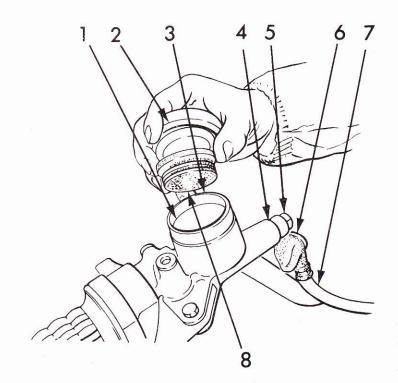


AIR BLEEDING INSTRUCTIONS

Following brands of brake fluid are recommended for use on your motorcycle:

Atlas Extra Heavy Duty Shell Super Heavy Duty Texaco Super Heavy Duty Wagner Lockheed Heavy Duty

- 1. Remove cap [2]. Remove rubber liner [8]. Fill reservoir [3] to full line [1]. Install rubber liner. Install cap.
- 2. Slide rubber boot [6] down hose [7]. Remove 14mm oil bolt [5] and washers.
- 3. Cover master cylinder outlet [4] with finger. Operate brake lever several times until brake fluid starts to flow from outlet.
- 4. Place brake hose [7] and washer at installed position. Install washer and 14mm oil bolt [5].
- 5. Slide rubber boot [6] over outlet [4].



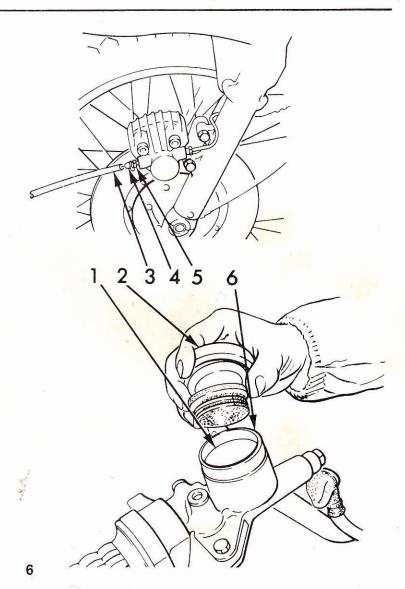
- 1. Pull left rubber cap [4] off. Connect clear plastic hose [3] to left caliper bleeder valve [5].
- 2. Insert other end of hose [3] into receptacle containing brake fluid.

Be sure brake reservoir [6] is kept filled to full line [1] at all times during bleeding operation.

3. Open bleeder valve [5]. Operate brake lever until hose [3] is full of fluid. Close bleeder valve.

Steps 4 and 5 should be repeated three times only before reservoir must be filled.

- 4. Operate brake lever until lever becomes hard to squeeze.
- 5. While depressing brake lever, open bleeder valve [5]. Allow fluid to flow until it stops. Close valve. Release brake lever.
- 6. Repeat steps 4 and 5 until no air is visible in plastic hose [3].
- 7. Remove cap [2]. Fill reservoir [6].
- 8. Repeat this page of instruction to air bleed the right caliper brake.



1. Spin wheel. Check that wheel spins freely.

If wheel does not spin freely, have your brakes and wheels inspected by a Kawasaki dealer.

 Remove wooden box from under motorcycle and carefully lower motorcycle to ground.

END OF ACTIVITY

TORQUE VALUE CHART

Description	Tool Size	Torque Value	
		Ft-Lb	Kg-M
Master cylinder bolts	10mm	4.3 - 5.1	0.6- 0.7
Brake bleeder valve	10mm	5.8 8.7	0.8- 1.0
Pipe fittings	10mm	12.5-13	1.7- 1.8
Four-Way fitting bolts	10mm	4.3 - 5.1	0.6- 0.7
Front disc mounting bolts	12mm	10 - 13	1.4- 1.8
Front fender mount bolts	13mm	14.5 - 15.5	2.0- 2.2
Front axle clamping nuts	13mm	14.5-15.5	2.0- 2.2
Oil bolts	14mm	18 -24	2.5 = 3.3
Caliper brake assembly mounting bolts	14mm	18 - 24	2.5 - 3.3
Front axle	19mm	50 -60	7.0 – 8.2