14

14. Rear Wheel/Suspension

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Service Information

AWARNING

- · Riding on damaged rims impairs safe operation of the vehicle.
- Tubeless tire removal, repair, and remounting procedures are covered in the section 16 of the Common Service Manual. When remounting the tire, note the normal rotating direction indicated by the arrow.
- Refer to the section 15 for brake system information.
- Use only genuine Honda replacement bolts and nuts for all suspension pivot and mounting points.

Troubleshooting

Rear wheel wobbling

- Bent rim
- Worn rear wheel bearing(s)
- Faulty tire
- · Unbalanced tire and wheel
- Low tire pressure
- Faulty swingarm pivot bearing(s)

Wheel turns hard

- Faulty wheel bearing(s)
- Brake drag (section 15)
- Bent rear axle

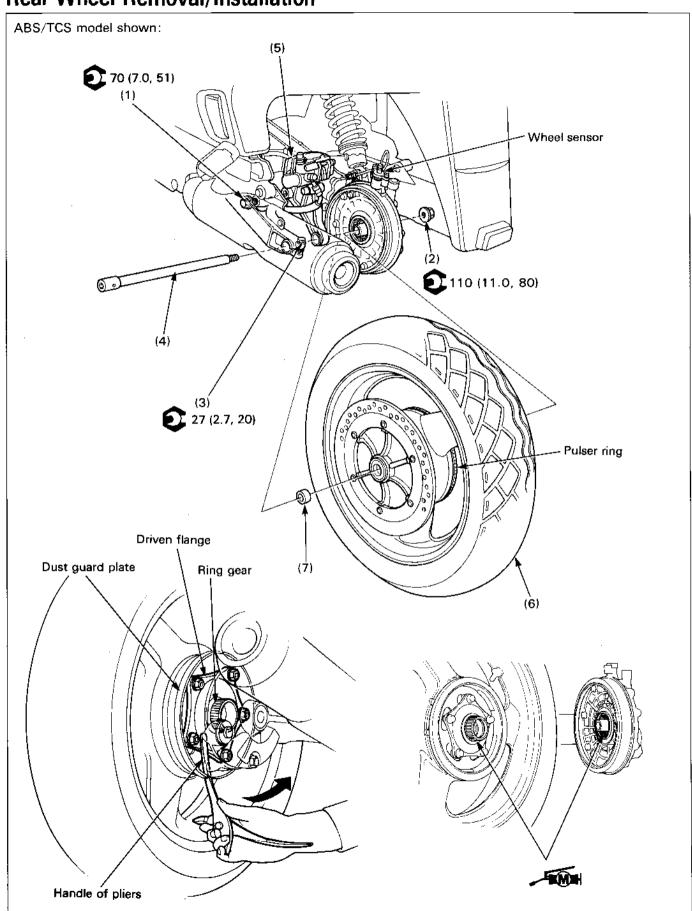
Soft suspension

- Weak shock absorber spring
- Oil leakage from damper unit
- · Incorrect suspension adjustment

Hard suspension

- Damaged shock absorber mount bushing
- Incorrect suspension adjustment
- Bent damper rod
- Damaged swingarm pivot bearing(s)
- Lack of lubrication in swing arm pivot bearings or suspension pivot points

Rear Wheel Removal/Installation



▲ WARNING

 A contaminated brake disc or pad reduces stopping power. Discard contaminated pads and clean a contaminated disc with a high quality brake degreasing agent.

NOTE

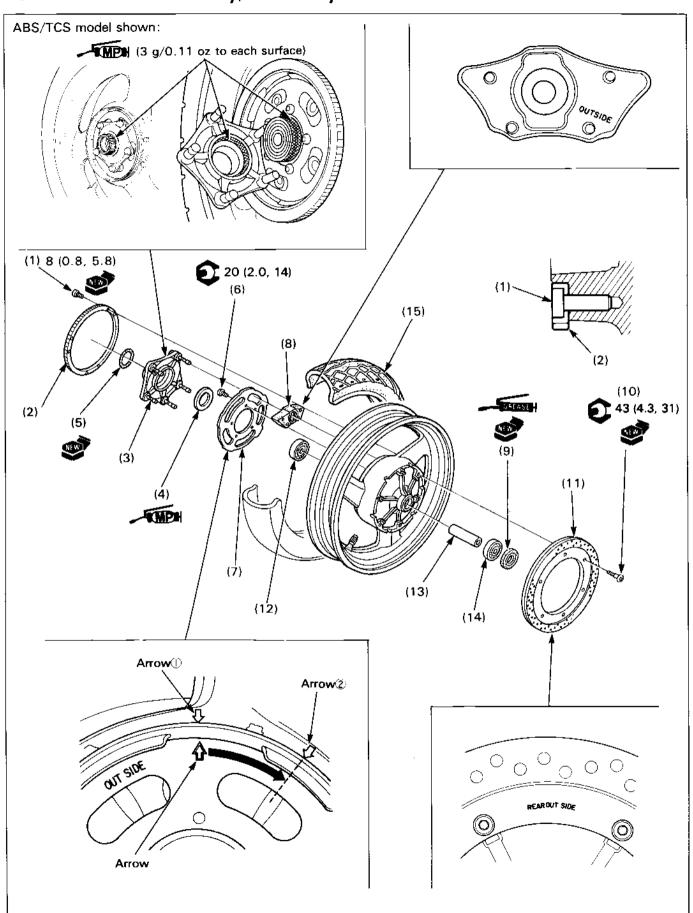
- · ABS/TCS or LBS-ABS/TCS model: Do not remove the wheel sensor to remove and install the rear wheel.
- Do not depress the brake pedal when the caliper is removed, or it will be difficult refit the disc between the brake pad.
- Support the removed caliper with a piece of wire so that it does not hang from the brake hose. Do not twist the brake hose
- Apply multipurpose NLGI No. 2 grease (molybdenum disulfide additive) to the driven flange and the ring gear engagement splines.

Requisite Service

Place the motorcycle on its center stand.

	Procedure	Q'ty	Remarks
(1) (2) (3) (4) (5) (6)	Removal Order Rear caliper stopper pin bolt Rear axle nut Rear axle pinch bolt Rear axle Rear caliper assembly Rear wheel assembly	1 1 1 1 1	Remove from the brake disc. Separate the driven flange of the wheel from the ring gear of the final drive gear by prying the driven flange with the handle of the pliers through the slot in the dust guard plate as shown. CAUTION ABS/TCS or LBS-ABS/TCS model: Be careful not to damge the pulser ring and wheel sensor.
[''']	Side collar	' .	

Rear Wheel Disassembly/Assembly



NOTE

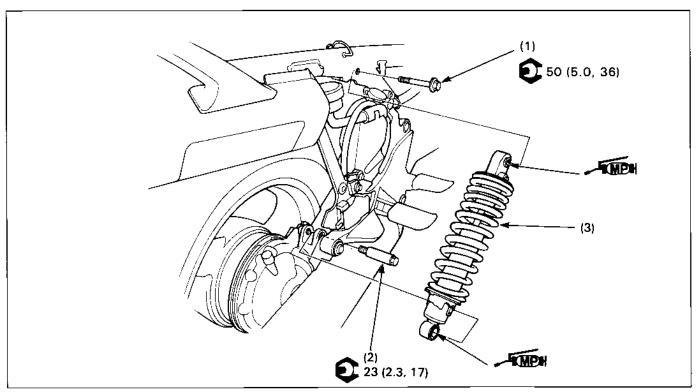
- · Replace the rear wheel damper rubbers as a set.
- · Replace the wheel bearings as a set.
- · For wheel bearing replacement, refer to the section 1 of the Common Service Manual.
- ABS/TCS or LBS-ABS/TCS model: When the pulser ring is replaced, perform the wheel sensor air gap inspection (page 16-A-51 or 16-B-34) after installing the rear wheel.

Requisite Service

· Rear wheel removal/installation (page 14-2).

	Procedure	Qʻty	Remarks
	Disassembly Order		Assembly is in the reverse order of disassembly.
(1)	Torx bolt (T25) (ABS/TCS or LBS-ABS/TCS model)	6	
(2)	Pulser ring (ABS/TCS or LBS-ABS/TCS model)	1	Install the pulser ring with the concave of bolt hole facing out. CAUTION
			Be careful not to deform, distort, or damage the pulser ring.
(3)	Final driven flange	1	At assembly, apply 3 g {0.11 oz} of molybdenum disulfide paste to the driven flange mating surface of the hub, to the inside diameter of the driven flange and to the splines of the driven flange as shown.
(4)	Thrust washer	1	
(5)	O-ring	1	
(6)	Socket bolt	5	
(7)	Damper holder plate	1	Remove the plate by turning it counterclockwise and aligning the arrow on the plate with the arrow ① on the wheel as shown. Install the plate, aligning the arrow with the arrow ①, and turn it clockwise until the arrow aligns with the arrow ② as shown.
(8)	Rear wheel damper rubber	5	Install with the "OUTSIDE" mark facing out.
(9)	Dust seal	1	
(10)	Socket bolt	6	
(11)	Rear brake disc	1	install with the "OUTSIDE" mark facing out.
(12)	Right wheel bearing (dual, 20x47x20.6 mm)	1	
(13)	Distance collar	1	
(14)	Left wheel bearing (6204UU)	1	At installation, drive a new left wheel bearing in the hub
(15)	Rear tire	1	first, then drive a new right bearing in.

Shock Absorber Removal/Installation



NOTE

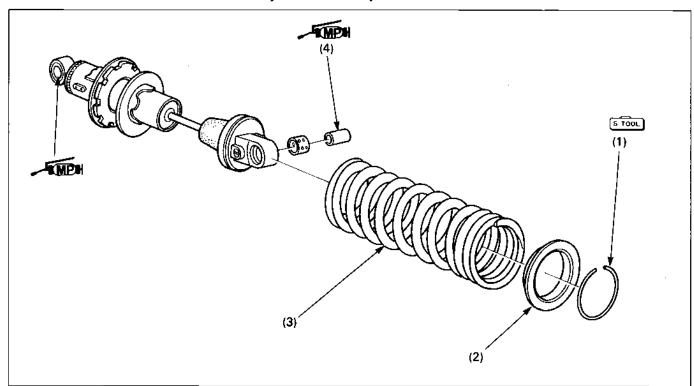
- Use a floor jack or other adjustable support under the final drive to relieve stress for ease of left shock absorber lower mounting bolt removal/installation.
- Note the position of the spring preload adjuster for future reference. Adjust the spring preload adjuster to the softest
 position for disassembly. Return the adjuster to the position noted before disassembly.

Requisite Service

- Place the motorcycle on its center stand
- Right side cover (page 2-2)

Procedure	'Q'ty	Remarks
Removal Order	Ţ	Installation is in the reverse order of removal.
(1) Upper mounting bolt	1	i
(2) Lower mounting bolt	1	
(3) Shock absorber assembly	, 1	Disassembly/assembly (page 14-7)

Shock Absorber Disassembly/Assembly



NOTE ___

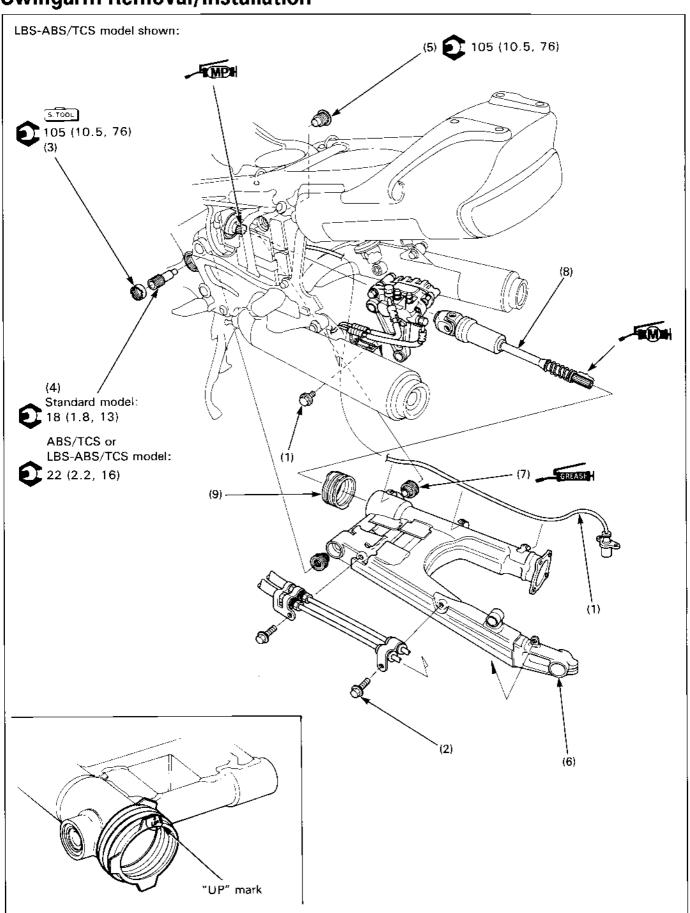
· Adjust the spring preload adjuster to the softest position before disassembly.

Requisite Service

Shock absorber removal/installation (page 14-6)

	Procedure	Q'ty	Remarks
(1)	Disassembly Order Stopper ring	1	Assembly is in the reverse order of disassembly. Compress the shock absorber spring using the spring compressor (07GME—0010000) and attachment (07959—MB10000) and remove the stopper ring.
(2) (3) (4)	Upper spring seat Spring Upper mount collar	1 1 1	Install with the tightly wound coil end facing up.

Swingarm Removal/Installation



NOTE

Replace the pivot bearings and outer races as a set.

Requisite Service

• Final gear case removal/installation (page 12-3)

	Procedure	Q'ty	Remarks
	Removal Order		Installation is in the reverse order of removal.
(1)	Wheel sensor wire (ABS/TCS or	1	Remove the wire harness from the swingarm.
	LBS-ABS/TCS model only		
(2)	Rear brake hose clamp bolt	2	Remove the rear brake hose clamp from the swingarm.
(3)	Left pivot lock nut	1	Use the swingarm lock nut wrench (07908-4690003).
(4)	Left pivot bolt	_i 1	
(5)	Right pivot bolt	1	
(6)	Swingarm	1	1
(7)	Pivot bearing	2	Pivot bearing outer race replacement (page 14-10)
(8)	Driveshaft assembly	1	Disassembly/Assembly (page 12-2)
(9)	Rubber boot	1	
	Installation Order	1	
(9)	Rubber boot	1	Install with the "UP" mark facing up.
(8)	Driveshaft assembly	1	Install into the swingarm
(7)	Pivot bearing	1	
(5)	Right pivot bolt	1	
(6)	Swingarm	1	Install in the frame and on the right pivot bolt while
[' '	·		engaging the driveshaft joint with the countershaft.
(4)	Left pivot bolt	1	After installing the pivot bolts, fit the rubber boot tab
' ''			into the transmission case groove properly.
(3)	Left pivot lock nut	. 1	Tighten the nut with the swingarm lock nut wrench (0
'	·		7908-4690003 or KS-HBA-08-469, U.S.A. only)
1			while holding the left pivot bolt.
(2)	Rear brake hose clamp bolt	4	Install the clamp onto the swingarm.
(1)	Wheel sensor wire harness	1	Install the wire harness onto the swingarm.

Pivot Bearing Outer Race Replacement

Punch or drill a 13 mm (1/2 in) hole into each grease retain-

Remove the attachment from the bearing remover. Slide the shaft through the hole and install the attachment onto the shaft.

Install the sliding weight and remove the outer race with the grease retainer.

Repeat for the other side.

S TOOL

Pivot bearing outer remover

07936-4150000

Sliding weight

07741-0010201

Install new bearing outer races into the swingarm pivot.

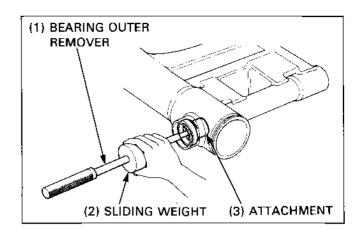


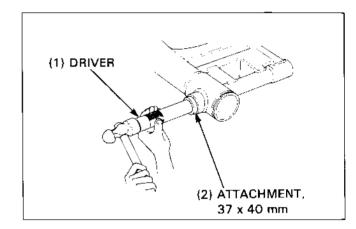
Driver

07749-0010000

Attachment, 37 x 40 mm

07746-0010200





Symbols

The symbols used throughout this manual show specific service procedures. If supplementary information is required pertaining to these symbols, it would be explained specifically in the text without the use of the symbols.

	Replace the part(s) with new one(s) before assembly.
S TOOL	Use special tool
OP. TOOL	Use optional tool. Use the same procedure you use to order parts.
10 (1.0, 7.2)	Torque specification. 10 N·m (1.0 kg-m, 7.2 ft-lb)
OIL	Use recommended engine oil, unless otherwise specified.
Mo OIL	Use molybdenum oil solution (mixture of the engine oil and molybdenum grease in a ratio of 1 : 1).
GREASE	Use multi-purpose grease (Lithium based multi-purpose grease NLGI #2 or equivalent)
	Use molybdenum disulfide grease (containing more than 3% molybdenum disulfide, NLGI #2 or equivalent) Example: Molykote® BR-2 plus manufactured by Dow Corning, U.S.A. Multi-purpose M-2 manufactured by Mitsubishi Oil Japan
- TOMPH	Use molybdenum disulfide paste (containing more than 40% molybdenum disulfide, NLGI #2 or equivalent) Example: Molykote® G-n Paste manufactured by Dow Corning, U.S.A. Honda Moly 60 (U.S.A. only) Rocol ASP manufactured by Rocol Limited, U.K. Rocol Paste manufactured by Sumico Lubricant, Japan
F SH	Use silicone grease
Lock	Apply a locking agent. Use a middle strength locking agent unless otherwise specified.
SEALU	Apply sealant
BRAKE	Use brake fluid, DOT 3 or DOT 4. Use the recommended brake fluid, unless otherwise specified.
FORK	Use Fork or Suspension Fluid.