

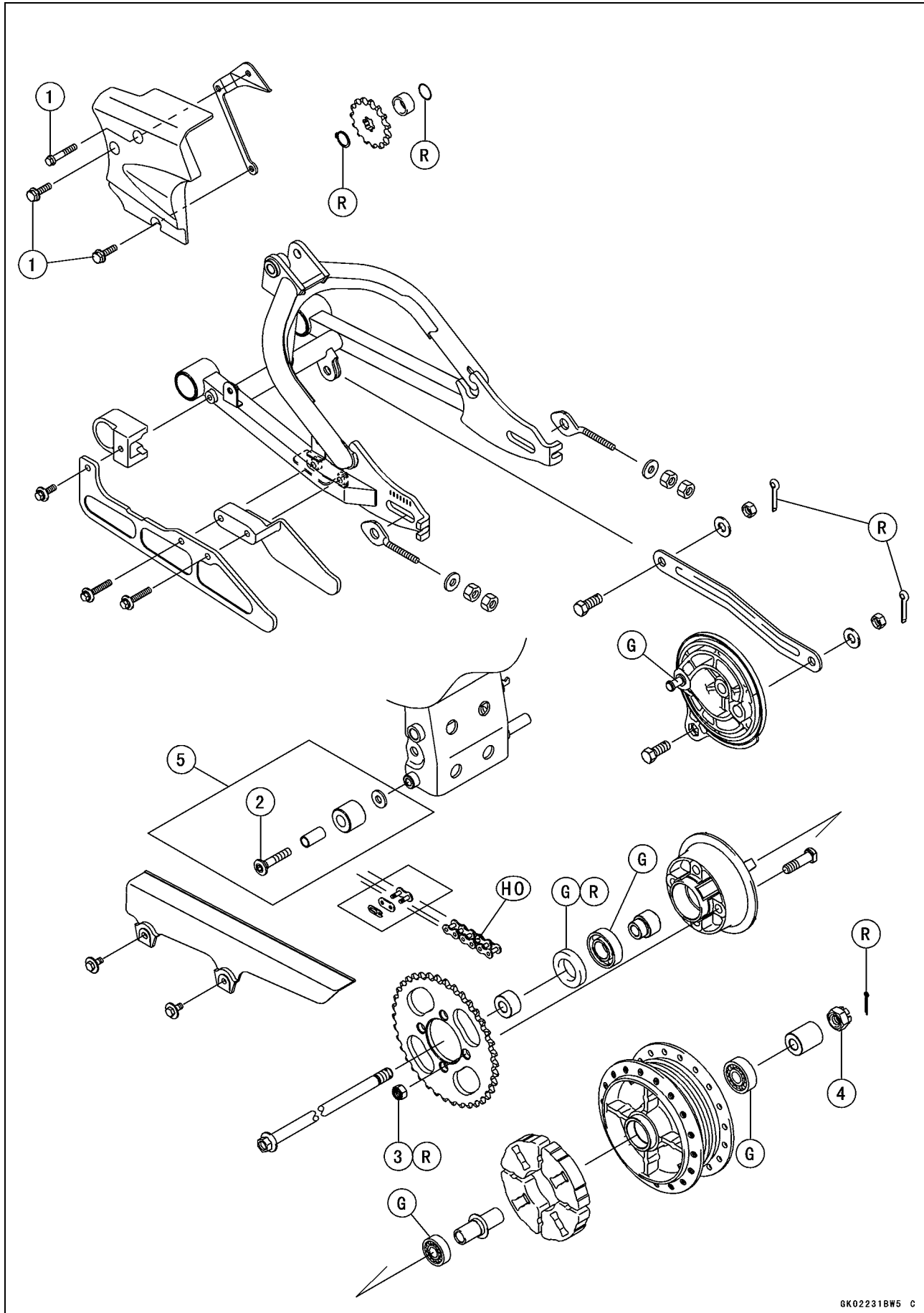
Final Drive

Table of Contents

Exploded View	10-2
Specifications	10-4
Special Tools	10-5
Drive Chain	10-6
Drive Chain Slack Inspection	10-6
Drive Chain Slack Adjustment	10-6
Wheel Alignment Inspection	10-6
Wheel Alignment Adjustment	10-6
Drive Chain Wear Inspection	10-6
Drive Chain Lubrication	10-6
Drive Chain Removal	10-6
Drive Chain Installation	10-7
Sprockets	10-9
Engine Sprocket Removal	10-9
Engine Sprocket Installation	10-9
Rear Sprocket Removal	10-9
Rear Sprocket Installation	10-9
Sprocket Wear Inspection	10-9
Rear Sprocket Warp Inspection	10-10
Coupling Bearing Removal	10-10
Coupling Bearing Installation	10-10
Coupling Bearing Inspection and Lubrication	10-10
Coupling Damper Inspection	10-10

10-2 FINAL DRIVE

Exploded View



Exploded View

No	Fastener	Torque			Remarks
		N·m	kgf·m	ft·lb	
1	Engine Sprocket Cover Bolts	5.2	0.53	46 in·lb	
2	Chain Guide Roller Mounting Bolt	23	2.3	17	
3	Rear Sprocket Nuts	44	4.5	32	R
4	Rear Axle Nut	64	6.5	47	

5. KLX110D Models

G: Apply grease.

HO: Apply heavy oil.

R: Replacement Parts

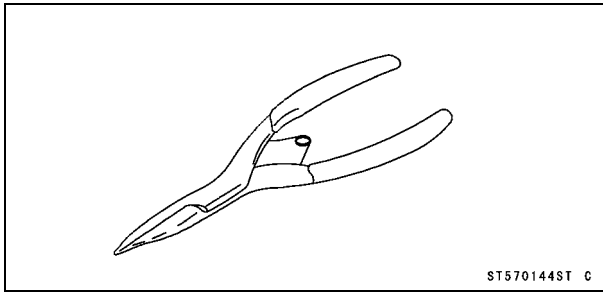
10-4 FINAL DRIVE

Specifications

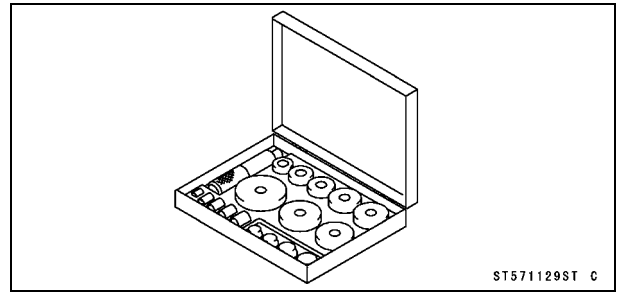
Item	Standard	Service Limit
Drive Chain		
Drive Chain Slack:		
KLX110C Models	11 ~ 16 mm (0.4 ~ 0.6 in.)	---
KLX110D Models	8 ~ 13 mm (0.3 ~ 0.5 in.)	---
Drive Chain 20-link Length	254.0 ~ 254.6 mm (10.00 ~ 10.02 in.)	259 mm (10.2 in.)
Standard Chain:		
Make	DAIDO	---
Type	DID420DX	---
Length	90 Links	---
Sprocket		
Rear Sprocket Warp	TIR 0.4 mm (0.016 in.) or less	TIR 0.5 mm (0.020 in.)

Special Tools

Outside Circlip Pliers:
57001-144



Bearing Driver Set:
57001-1129



10-6 FINAL DRIVE

Drive Chain

Drive Chain Slack Inspection

- Refer to the Drive Chain Slack Inspection in the Periodic Maintenance chapter.

Drive Chain Slack Adjustment

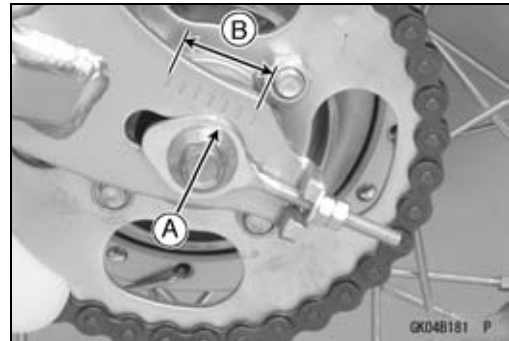
- Refer to the Drive Chain Slack Adjustment in the Periodic Maintenance chapter.

Wheel Alignment Inspection

- Check that the notch [A] of the chain adjuster aligns with the same swing arm mark [B] as the other side adjuster.
- ★ If they do not, adjust the chain slack and align the wheel alignment (see Drive Chain Slack Adjustment in the Periodic Maintenance chapter).

NOTE

- Wheel alignment can be also checked using the straightedge or string method.



⚠ WARNING

Misalignment of the wheel will result in abnormal wear and may result in an unsafe riding condition. Be sure the wheel is properly aligned.

Wheel Alignment Adjustment

- This procedure is the same as Drive Chain Slack Adjustment (see Drive Chain Slack Adjustment in the Periodic Maintenance chapter).

Drive Chain Wear Inspection

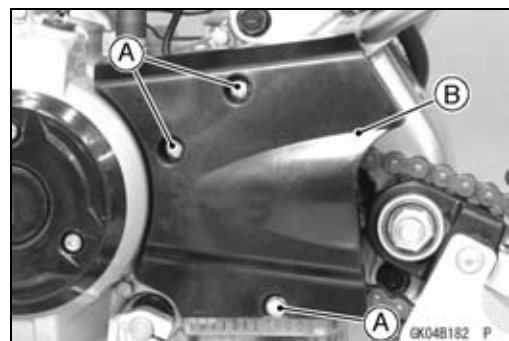
- Refer to the Drive Chain Wear Inspection in the Periodic Maintenance chapter.

Drive Chain Lubrication

- Refer to the Drive Chain Lubrication in the Periodic Maintenance chapter.

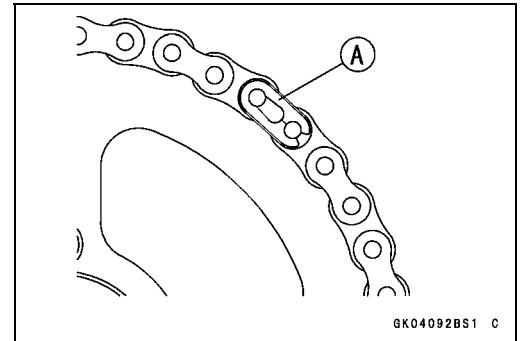
Drive Chain Removal

- Remove the bolts [A] and the engine sprocket cover [B] with the chain tension guide.



Drive Chain

- Remove the clip [A] from the master link using pliers, and remove the chain from the rear sprocket.
- Take the chain off the motorcycle, being careful that the chain does not get dirty from contact with the ground.

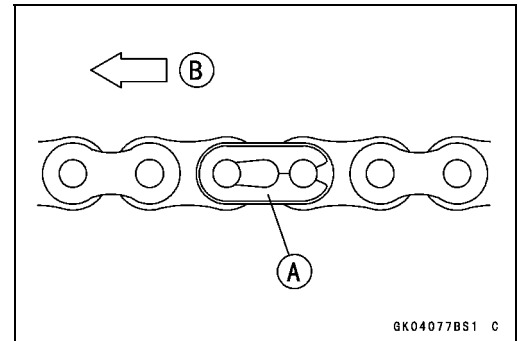


Drive Chain Installation

⚠ WARNING

For safety, use only the standard chain.

- Fit the drive chain back onto the sprockets with the ends at the rear sprocket.
- Install the master link from the frame side.
- Install the clip [A] so that the closed end of the "U" points in the direction of chain rotation [B]. (The open end of the "U" points in the reverse direction of chain rotation).



⚠ WARNING

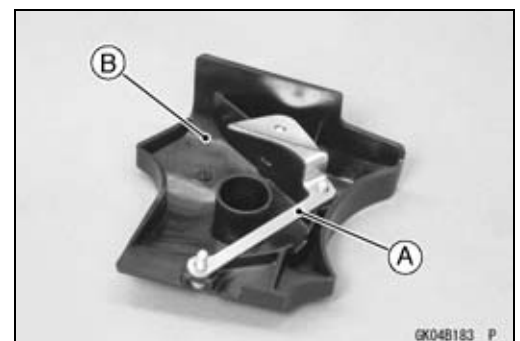
Incorrect installation of the master link clip can allow it to catch on an adjacent part. If the clip dislodges, the chain could come a part, and this could result in rear wheel lockup and loss of control. Be sure the master link clip is installed correctly.

- Adjust the drive chain slack (see Drive Chain Slack Adjustment in the Periodic Maintenance chapter).
- Check the brake for good braking power, and no brake drag.

⚠ WARNING

A rear brake that cannot be fully operated with the pedal can cause a crash resulting in serious injury or death. If a full brake pedal is not obtained, disassemble and inspect the brake parts for wear. Worn brake parts diminish brake performance, can damage brake components and lead to brake failure or cause the brake to lock, resulting in a crash that may cause serious injury or death.

- Put the chain tension guide [A] on the engine sprocket cover [B], and install the sprocket cover.



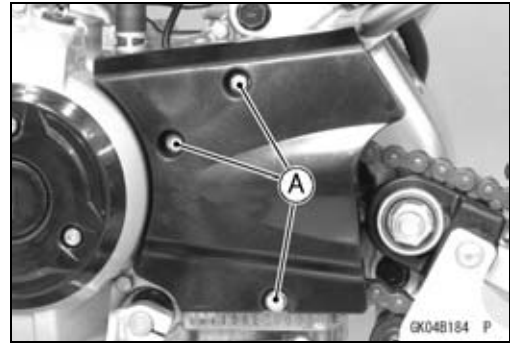
10-8 FINAL DRIVE

Drive Chain

○The upper bolt is longer than the other ones.

● Tighten:

Torque - Engine Sprocket Cover Bolts [A]: 5.2 N·m (0.53 kgf·m, 46 in·lb)



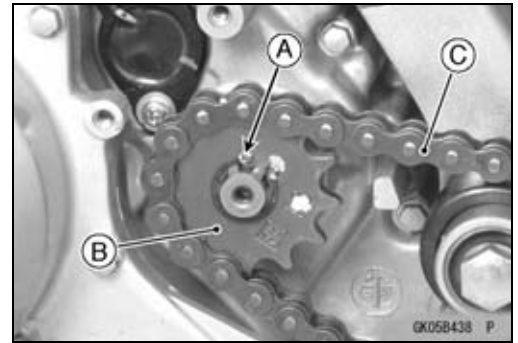
Sprockets

Engine Sprocket Removal

- Remove the engine sprocket cover (see Drive Chain Removal).
- Remove the circlip [A] and the engine sprocket [B] with the drive chain [C].

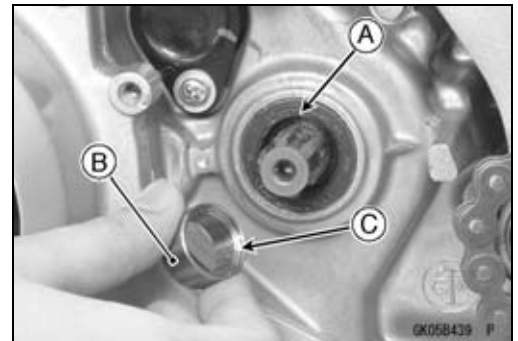
Special Tool - Outside Circlip Pliers: 57001-144

- Take off the sprocket from the chain.

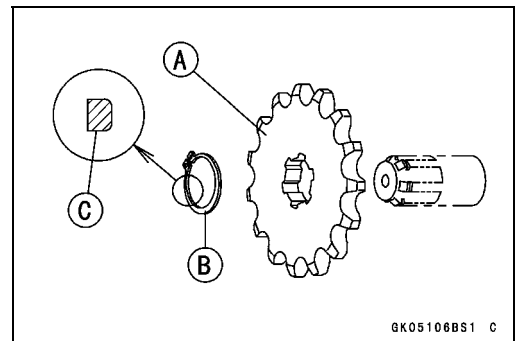


Engine Sprocket Installation

- Replace the O-ring [A] on the output shaft with a new one.
- Apply grease to the O-ring.
- Install the O-ring on the output shaft while expanding the O-ring by the hand.
- Install the collar [B] to the output shaft.
- The chamfered side [C] of the collar must be faced in.

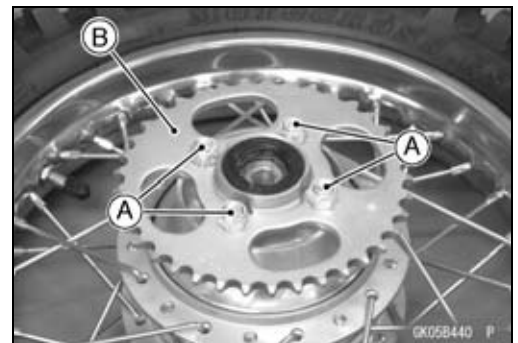


- Install the engine sprocket [A] and drive chain together.
- Install the engine sprocket so that tooth number marking on it faces outward.
- Replace the circlip [B] with a new one.
- Fit the circlip so that the round side [C] faces in as shown.
- Adjust the drive chain slack if necessary (see Drive Chain Slack Adjustment in the Periodic Maintenance chapter).
- Install the engine sprocket cover (see Drive Chain Installation).



Rear Sprocket Removal

- Remove the rear wheel (see Rear Wheel Removal in the Wheels/Tires chapter).
- Unscrew the rear sprocket nuts [A], and remove the rear sprocket [B].



Rear Sprocket Installation

- Install the rear sprocket so that the marked [A] side faces outward.
- Replace the rear sprocket nuts with new ones.
- Torque - Rear Sprocket Nuts: 44 N·m (4.5 kgf·m, 32 ft·lb)**
- Install the rear wheel (see Rear Wheel Installation in the Wheels/Tires chapter).



Sprocket Wear Inspection

- Refer to the Sprocket Wear Inspection in the Periodic Maintenance chapter.

10-10 FINAL DRIVE

Sprockets

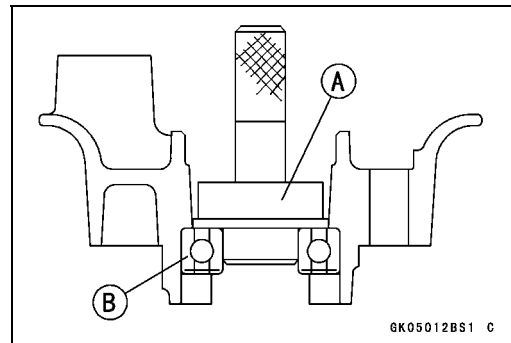
Rear Sprocket Warp Inspection

- Refer to the Rear Sprocket Warp Inspection in Periodic Maintenance chapter.

Coupling Bearing Removal

- Pull out the coupling collar from the left.
- Remove the oil seal.
- Using the bearing driver set [A] or some other suitable tool, remove the bearing [B] by tapping from the drum side.

Special Tool - Bearing Driver Set: 57001-1129



Coupling Bearing Installation

- Press in the bearing so that the marked side faces out until it is bottomed.
- Replace the oil seal with a new one.
- Press in the oil seal so that the seal surface is flush with the end of the hole.

Special Tool - Bearing Driver Set: 57001-1129

- Apply high-temperature grease to the oil seal lips.

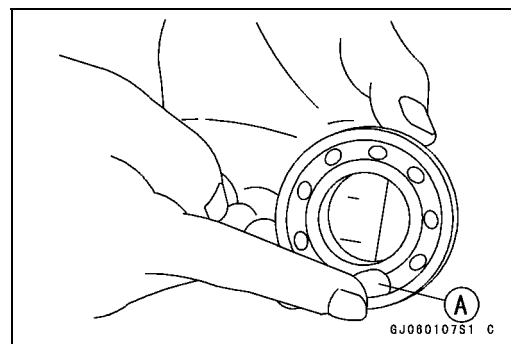
Coupling Bearing Inspection and Lubrication

Since the coupling bearing is made to extremely close tolerances, the clearance cannot normally be measured.

- Wash the bearing with a high flash-point solvent, dry it (do not spin it while it is dry), and oil it. Spin it by hand to check its condition.

★ If it is noisy, doesn't spin smoothly, or has any rough spots, it must be replaced.

- If the bearing is to be used again, rewash it with a high flash-point solvent, dry it, and pack it with good quality bearing grease. Turn the bearing around by hand a few times to make sure the grease [A] is distributed uniformly inside the bearing, and wipe the old grease out of the coupling before bearing installation.



Coupling Damper Inspection

- Remove the rear wheel coupling, and inspect the rubber dampers [A].
- ★ Replace the dampers if they appear damaged or deteriorated.

